Fig. 1

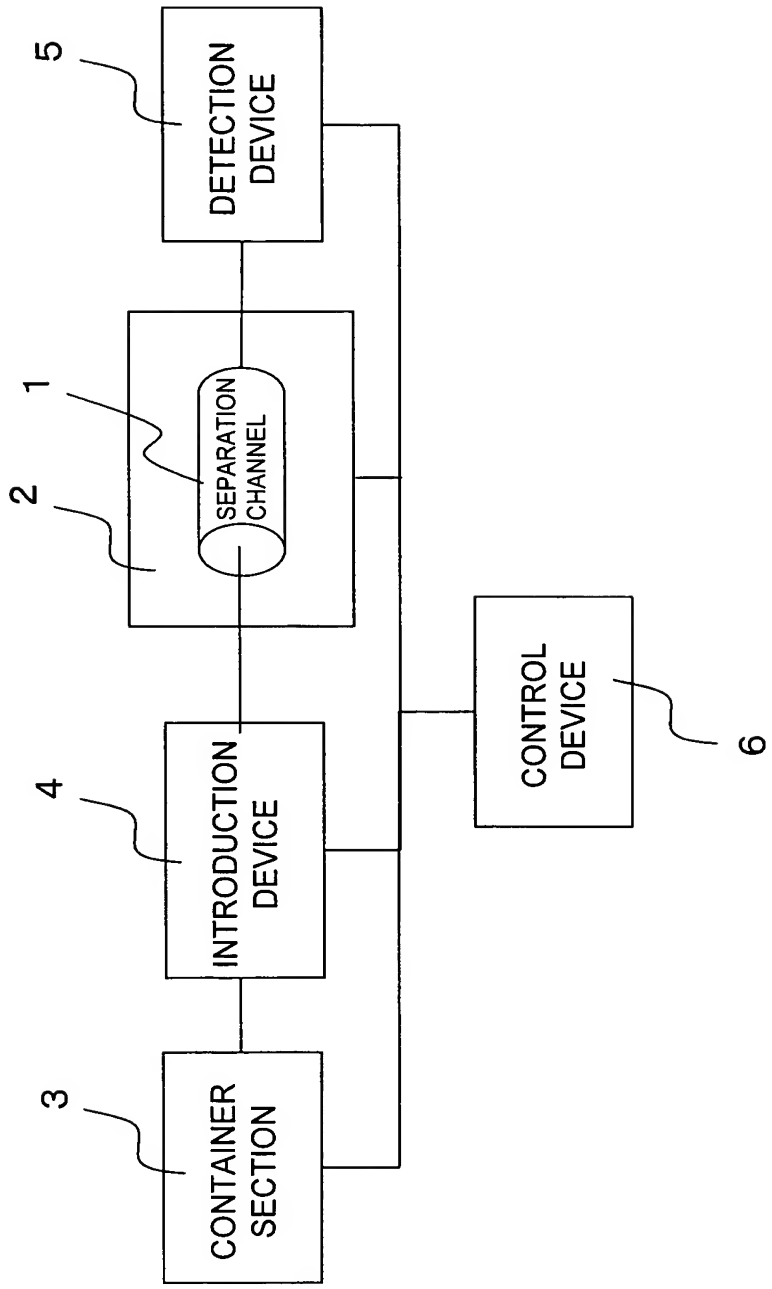
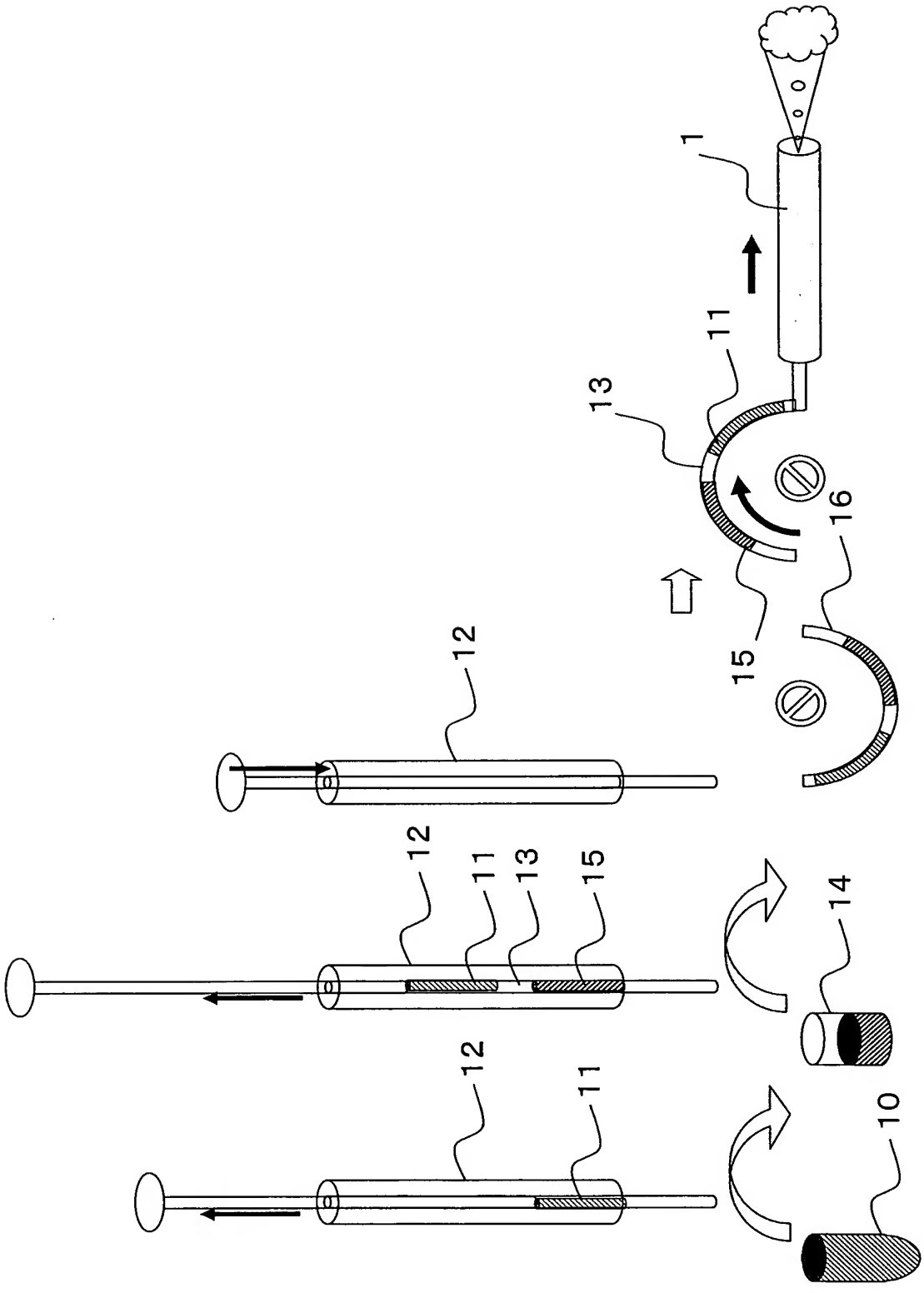

5
DETECTION DEVICE
1
SEPARATION CHANNEL
2
4
INTRODUCTION DEVICE
3
CONTAINER SECTION
CONTROL DEVICE
6

Fig. 2-1



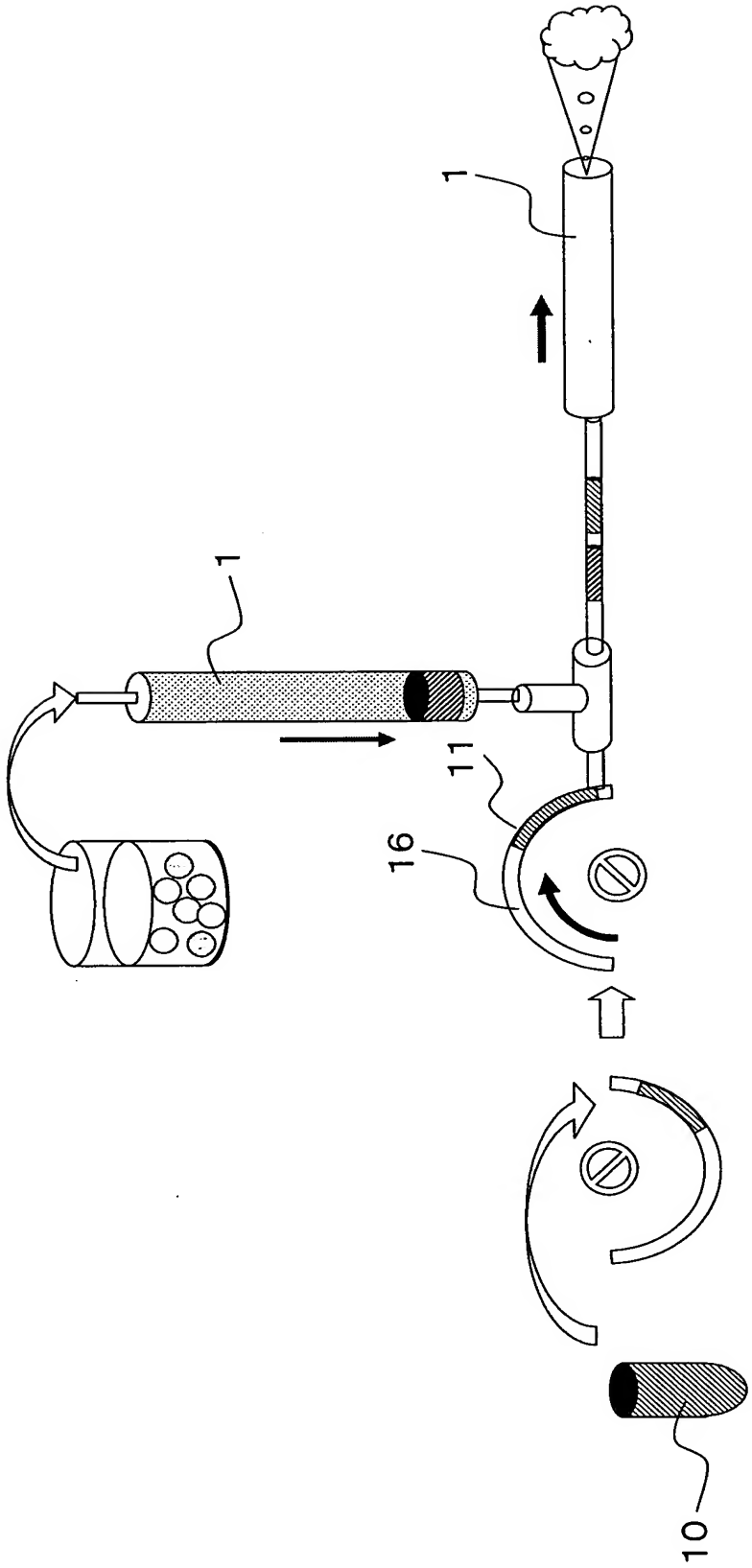


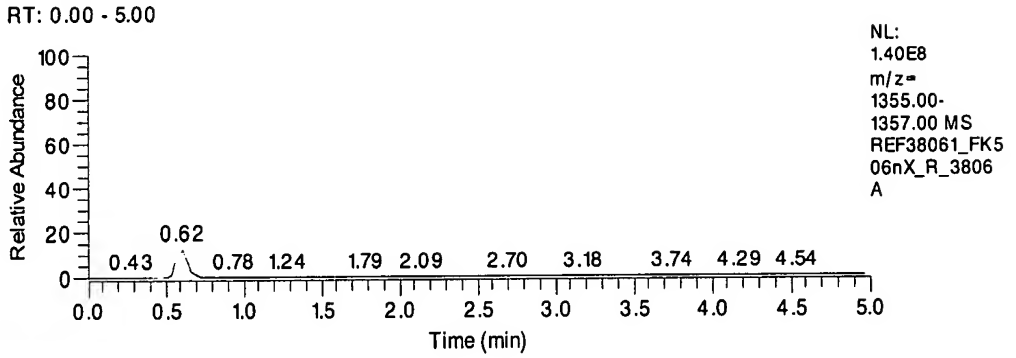
Fig. 2-2

Fig. 3-1

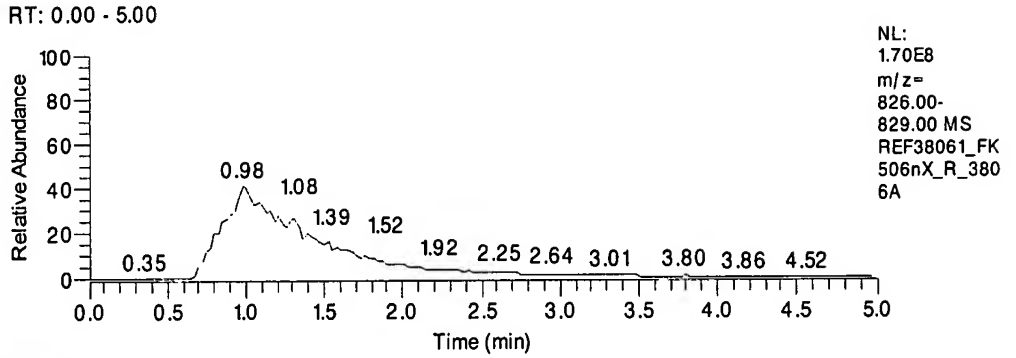
SECOND SOLUTION (C) 1 μL + FIRST SOLUTION (A) 1 μL

REF38061_FK506nX_R_3806A 2003/08/06 02:25:52

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1679.0

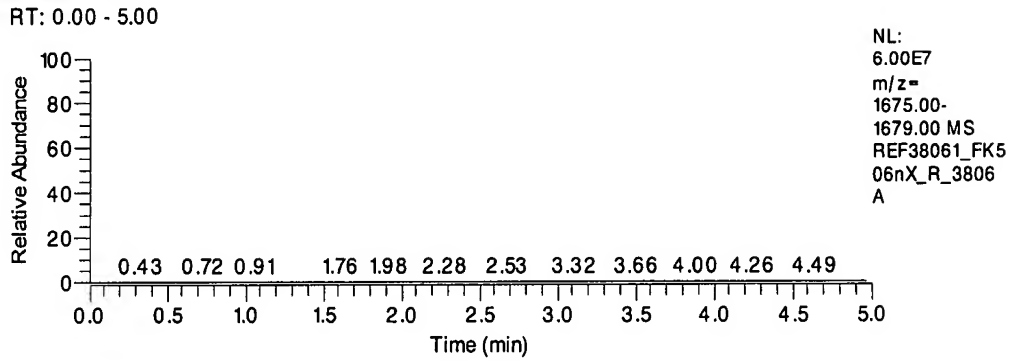
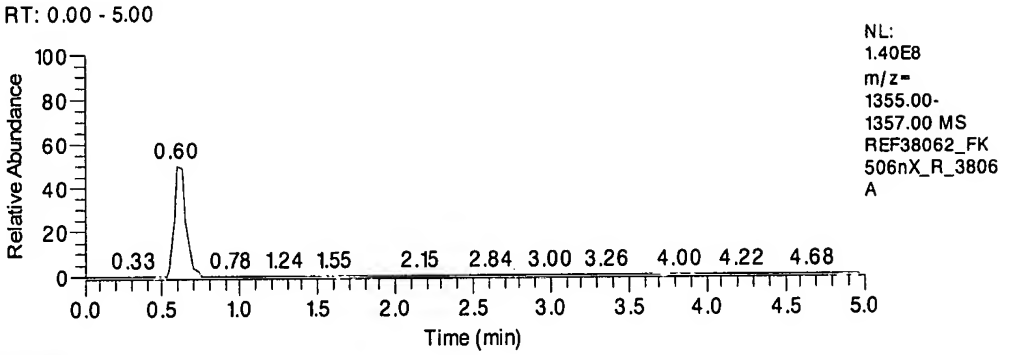


Fig. 3-2

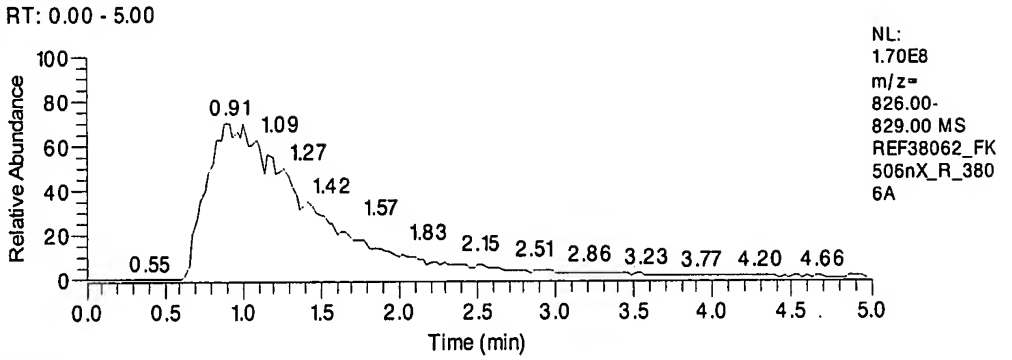
SECOND SOLUTION (C) 2 μL + FIRST SOLUTION (A) 1 μL

REF38062_FK506nX_R_3806A 2003/08/06 02:48:46

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1679.0

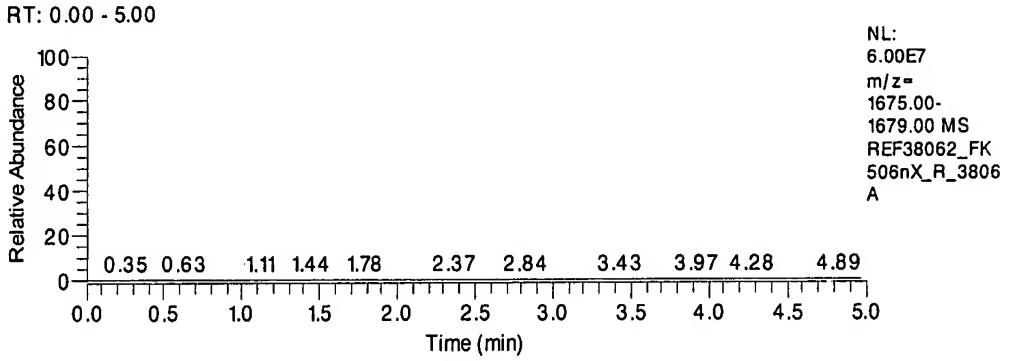
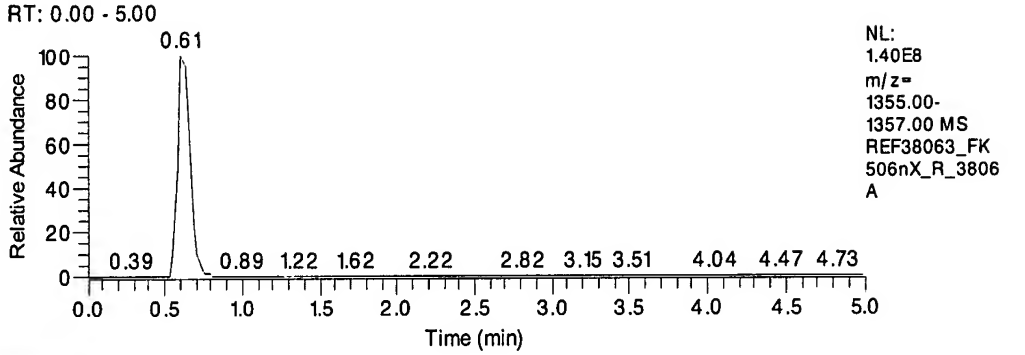


Fig. 3-3

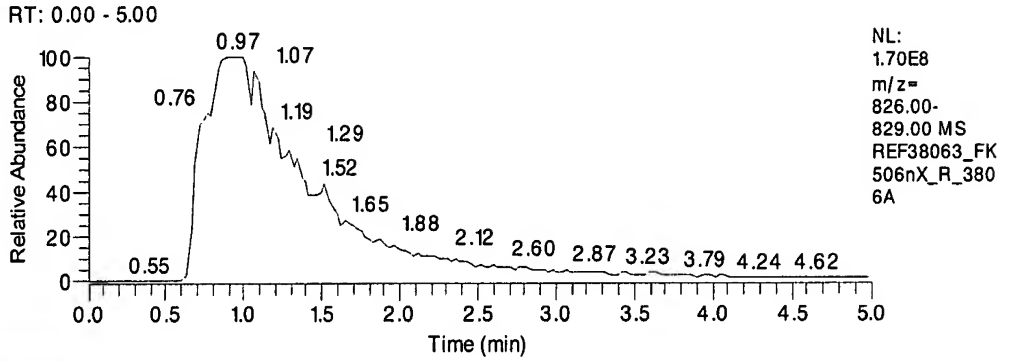
SECOND SOLUTION (C) 3 μL + FIRST SOLUTION (A) 1 μL

REF38063_FK506nX_R_3806A 2003/08/06 03:11:42

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1679.0

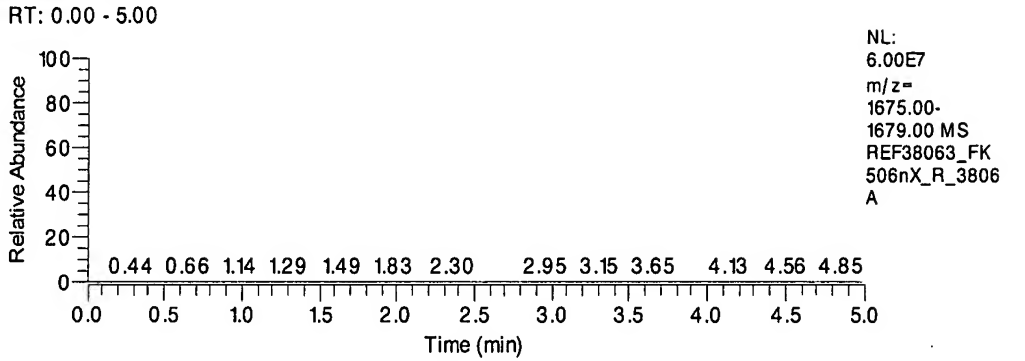
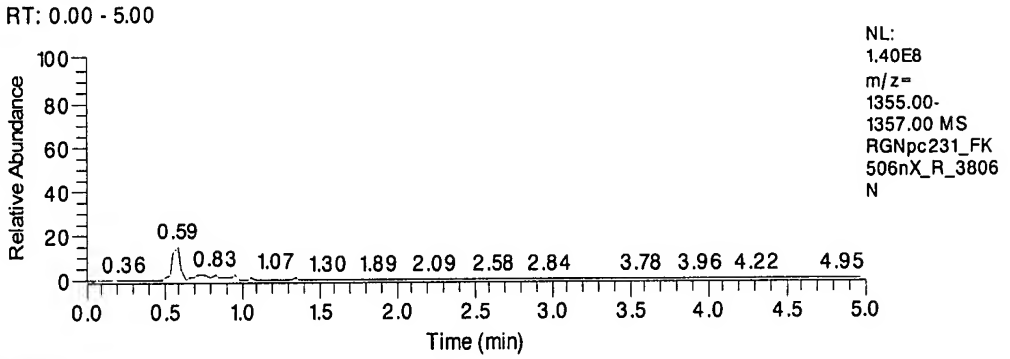


Fig. 3-4

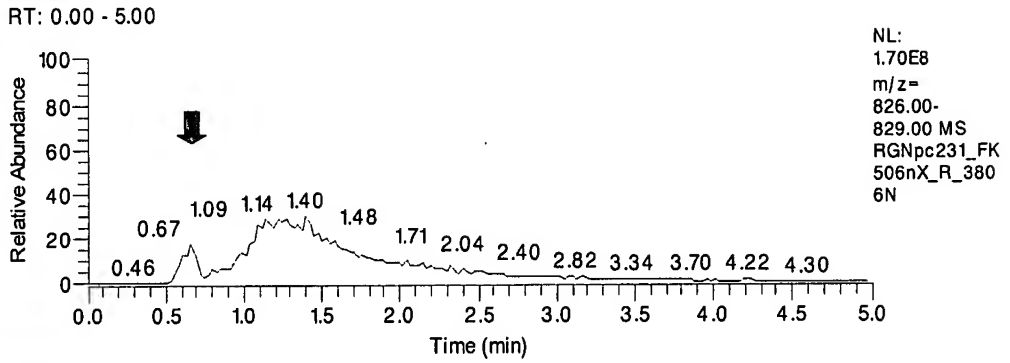
SECOND SOLUTION (C) 1 μL + FIRST SOLUTION (A) 1 μL

RGNpc231_FK506nX_R_3806N 2003/08/06 03:57:31

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1679.0

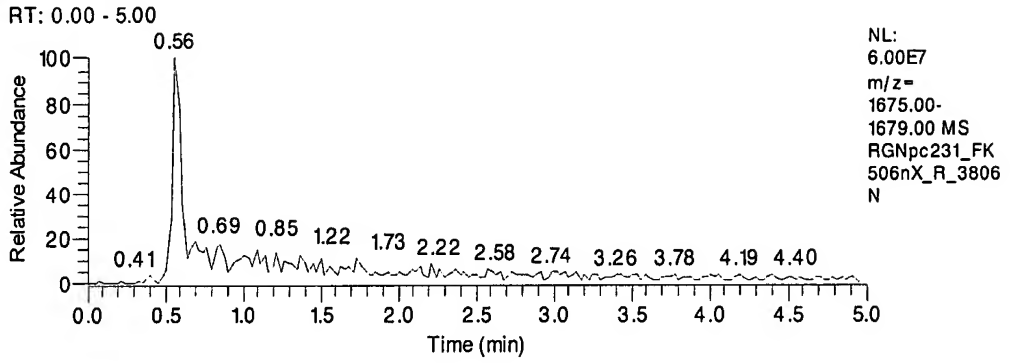
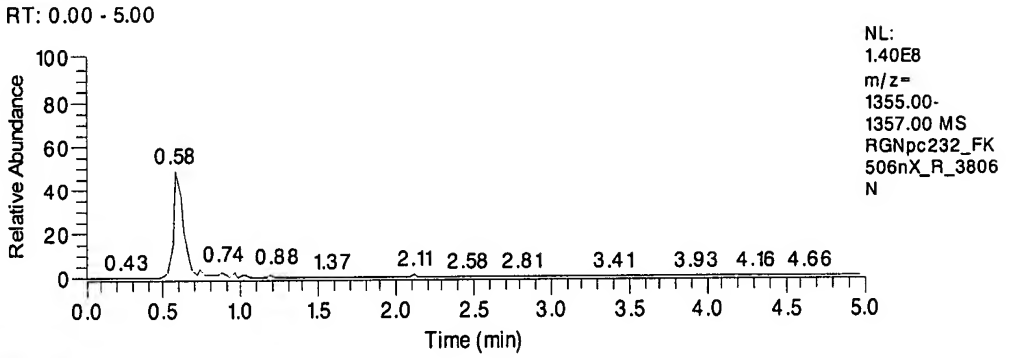


Fig. 3-5

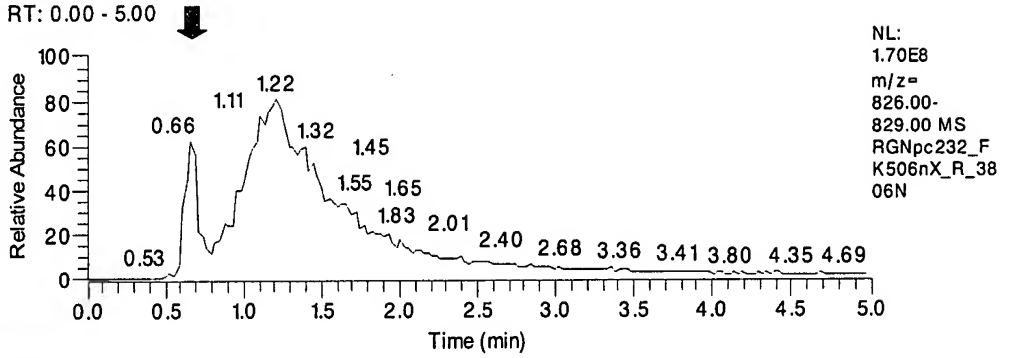
SECOND SOLUTION (C) 2 μL + FIRST SOLUTION (A) 1 μL

RGNpc232_FK506nX_R_3806N 2003/08/06 04:08:59

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1679.0

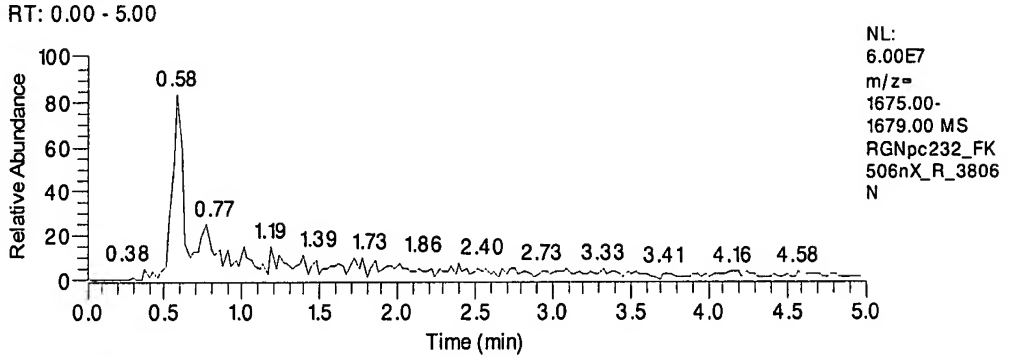
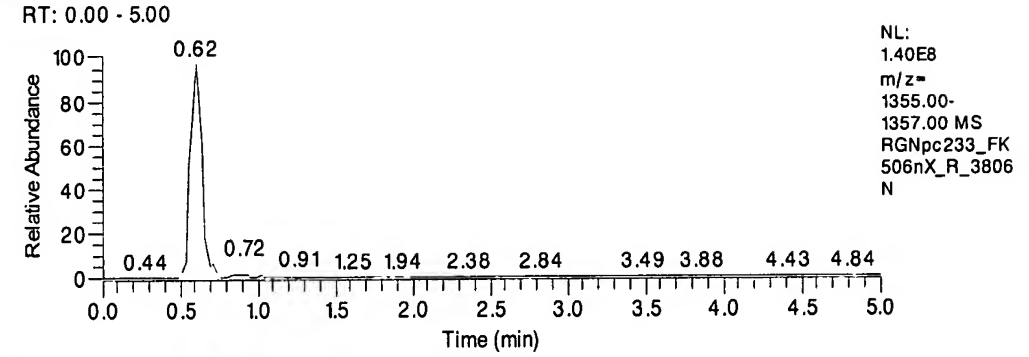


Fig. 3-6

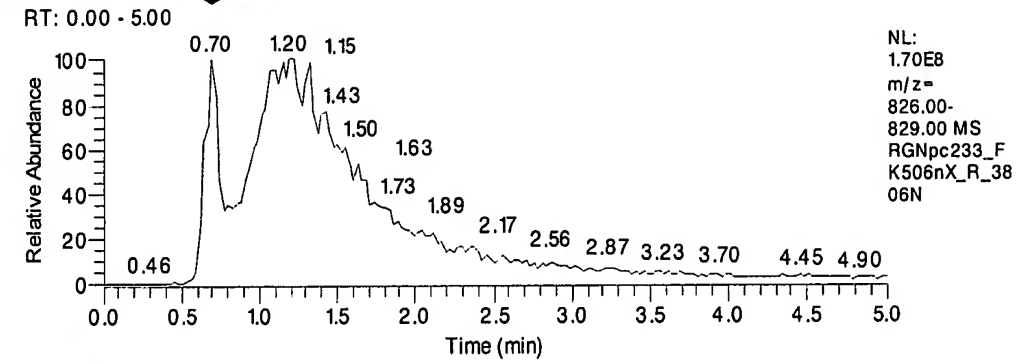
SECOND SOLUTION (C) 3 μL + FIRST SOLUTION (A) 1 μL

RGNpc233_FK506nX_R_3806N 2003/08/06 04:20:27

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1679.0

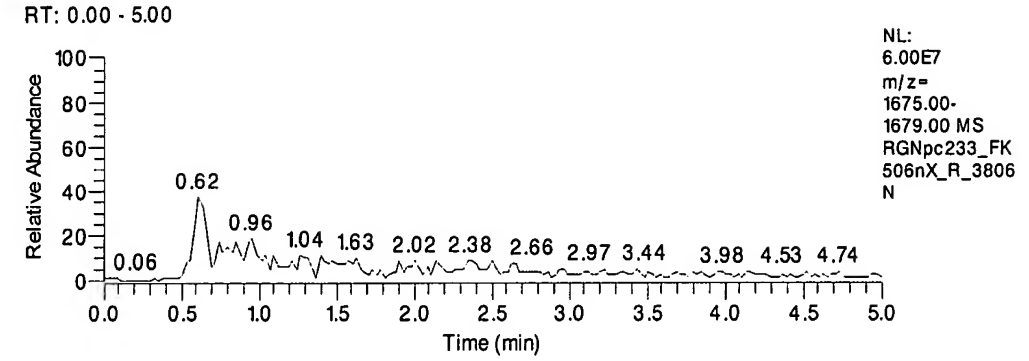


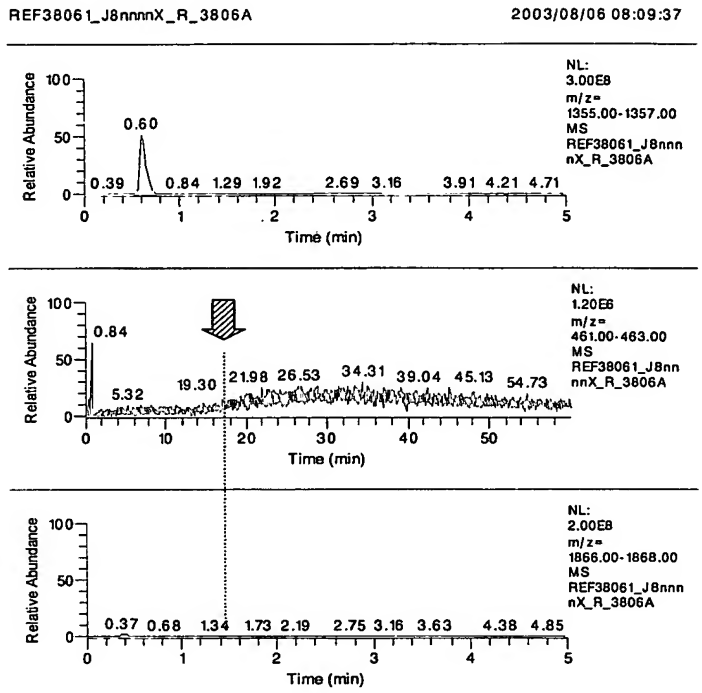
Fig. 4-1

SECOND SOLUTION (B) 1 μL + FIRST SOLUTION (A) 1 μL

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0



SECOND SOLUTION (B) 1 μL + FIRST SOLUTION (B) 1 μL

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0

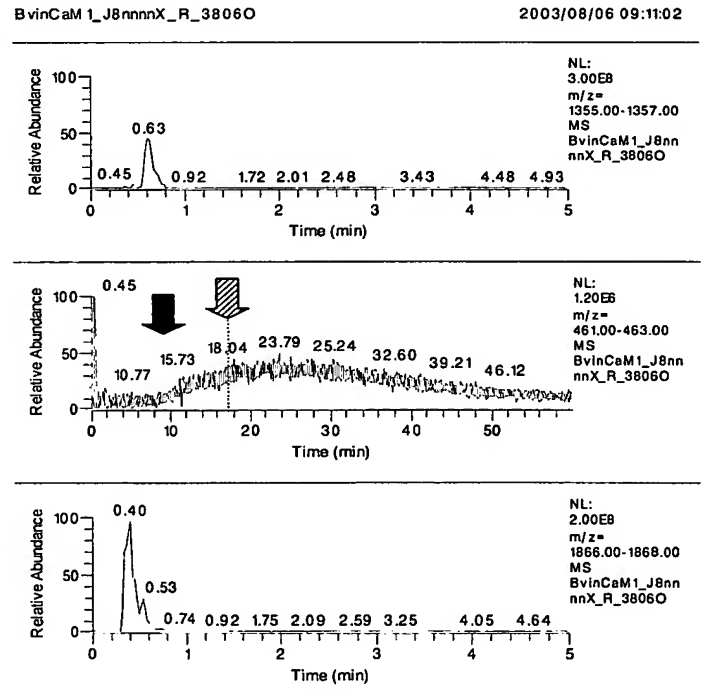


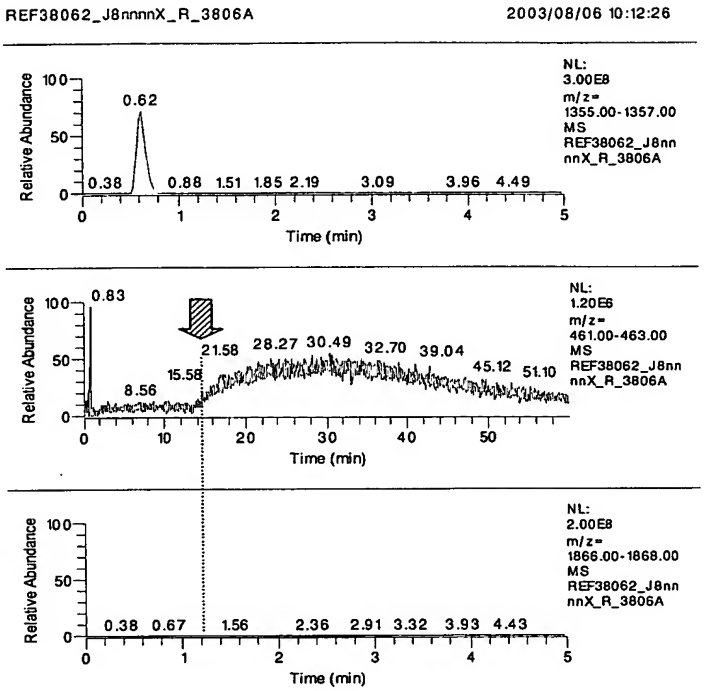
Fig. 4-2

SECOND SOLUTION (B) 2 μL + FIRST SOLUTION (A) 1 μL

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0



SECOND SOLUTION (B) 2 μL + FIRST SOLUTION (B) 1 μL

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0

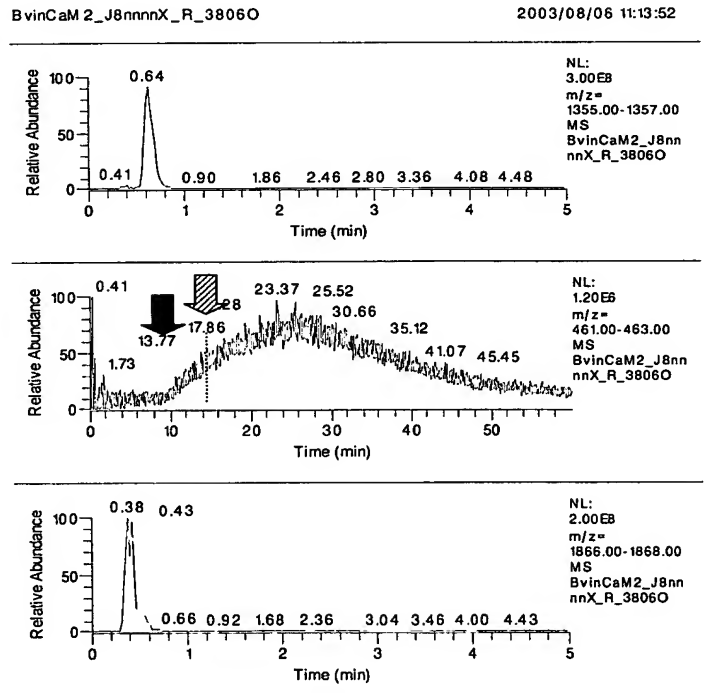


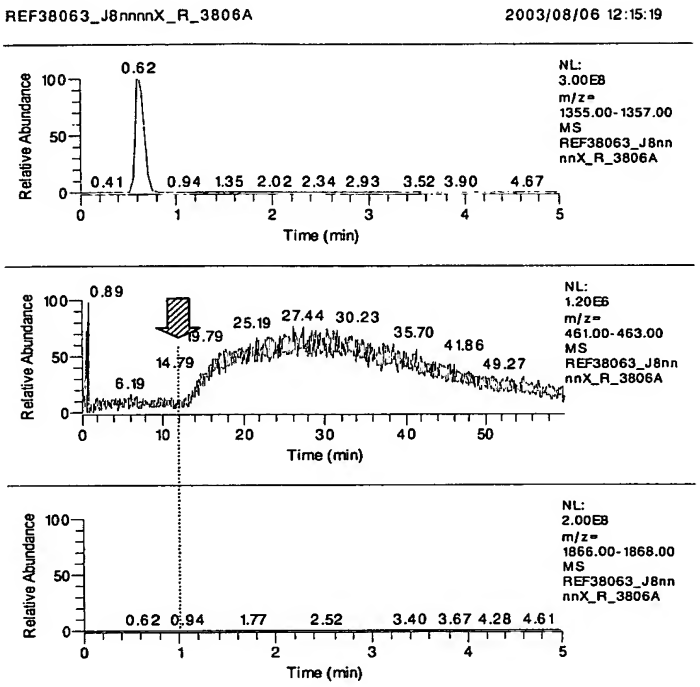
Fig. 4-3

SECOND SOLUTION (B) 3 μL + FIRST SOLUTION (A) 1 μL

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0



SECOND SOLUTION (B) 3 μL + FIRST SOLUTION (B) 1 μL

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0

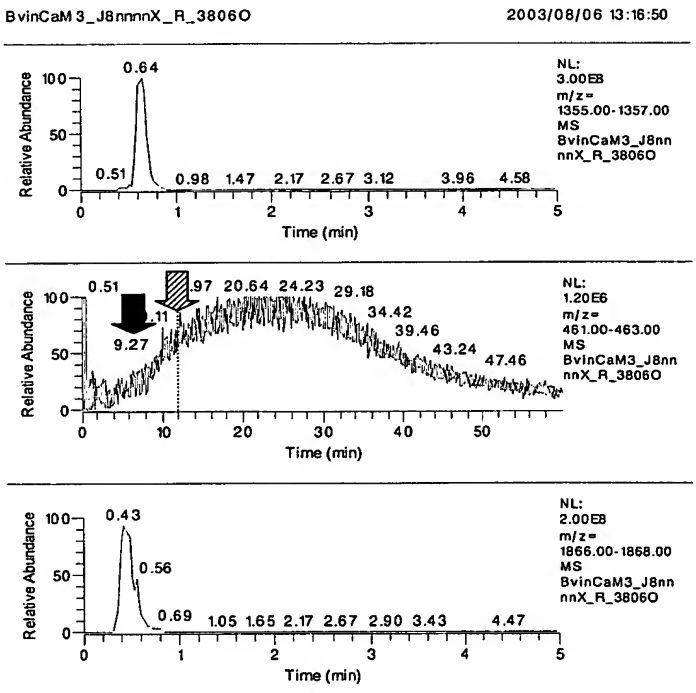
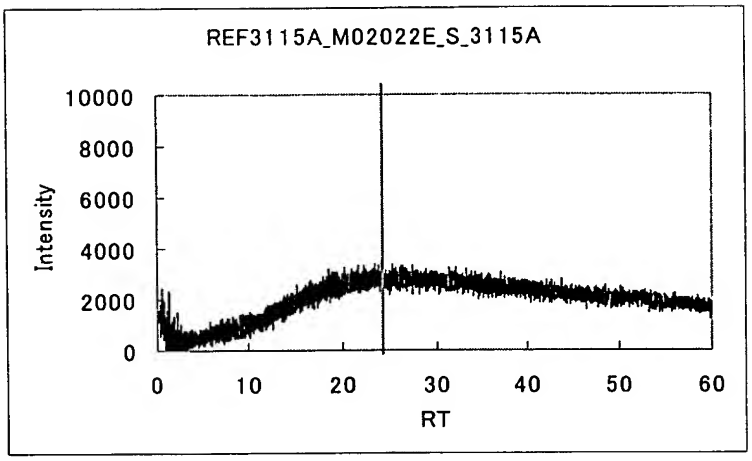


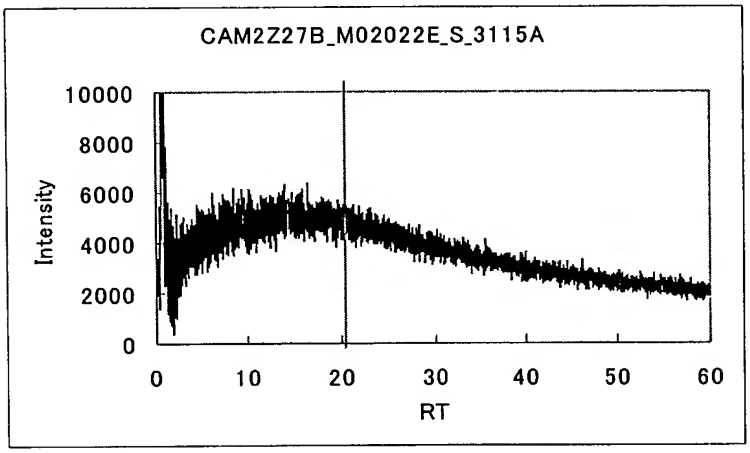
Fig. 5-1

Multi02-022E

FIRST SOLUTION (a)



FIRST SOLUTION (b)



FIRST SOLUTION (c)

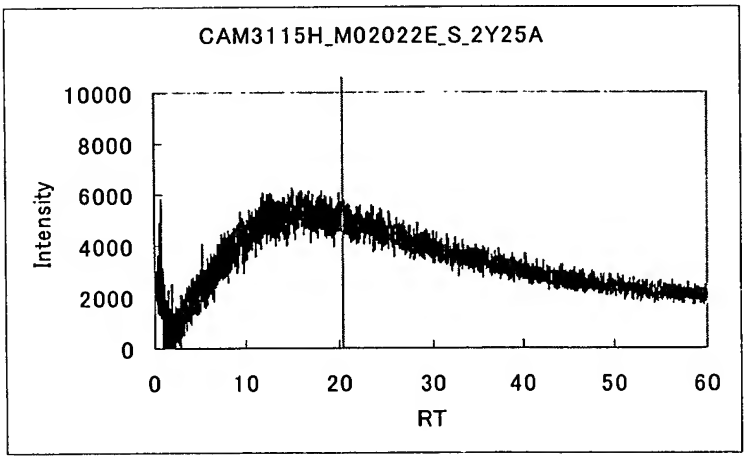
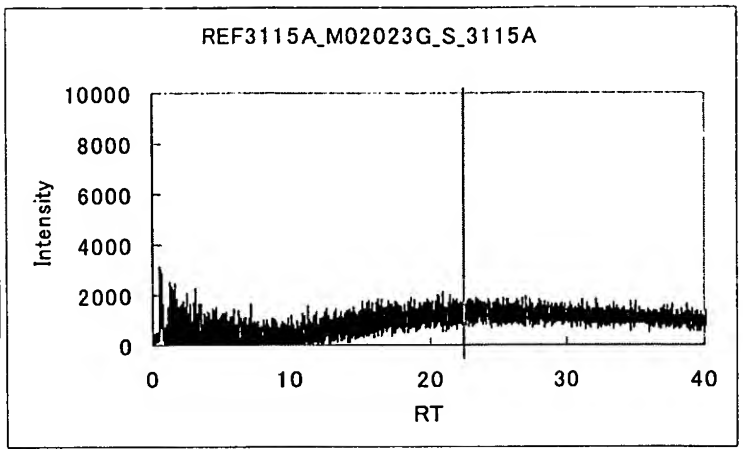


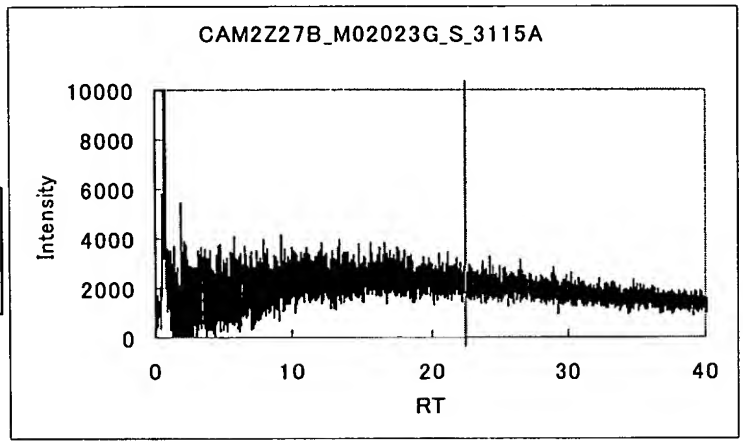
Fig. 5-2

Multi02-023G

FIRST SOLUTION (a)



FIRST SOLUTION (b)



FIRST SOLUTION (c)

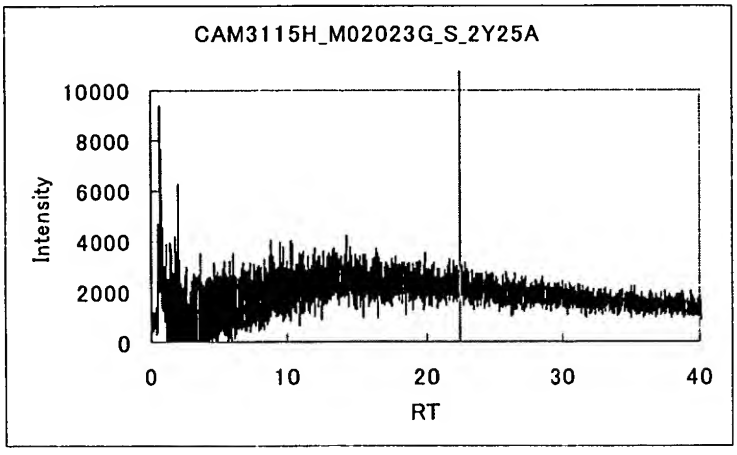
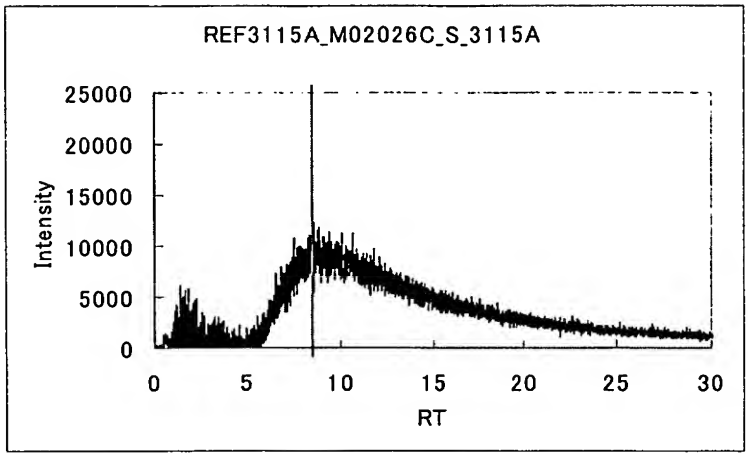


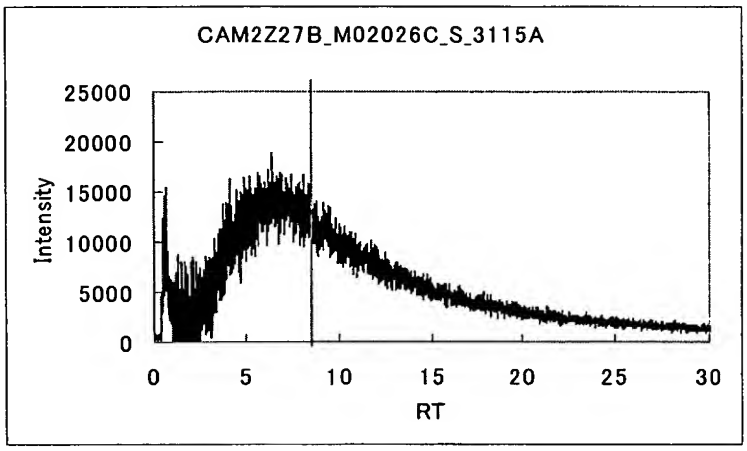
Fig. 5-3

Multi02-026C

FIRST SOLUTION (a)



FIRST SOLUTION (b)



FIRST SOLUTION (c)

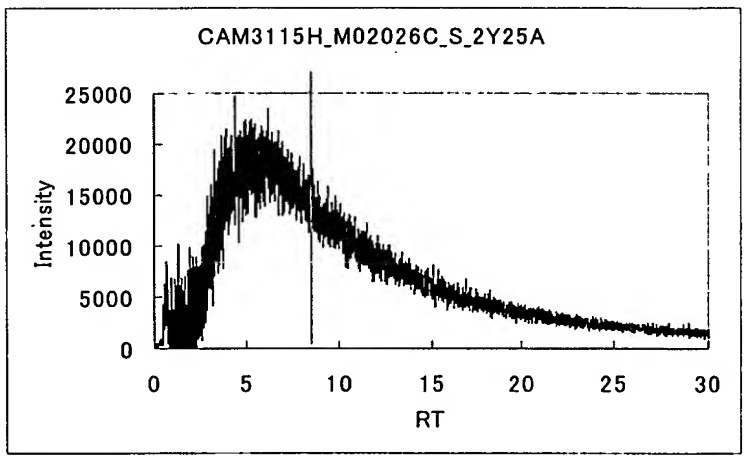
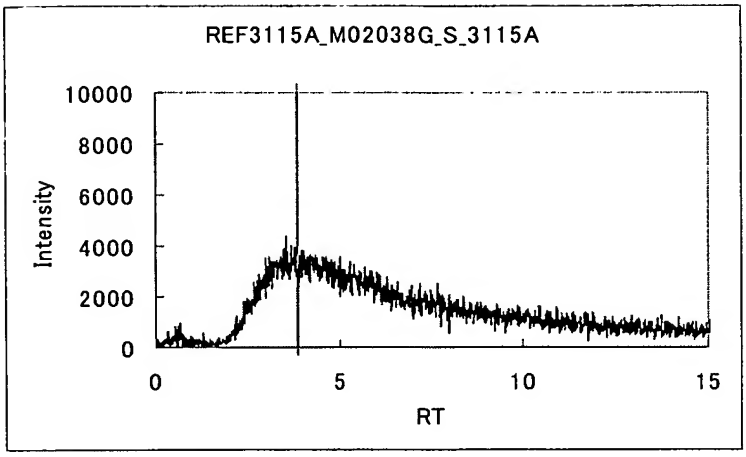


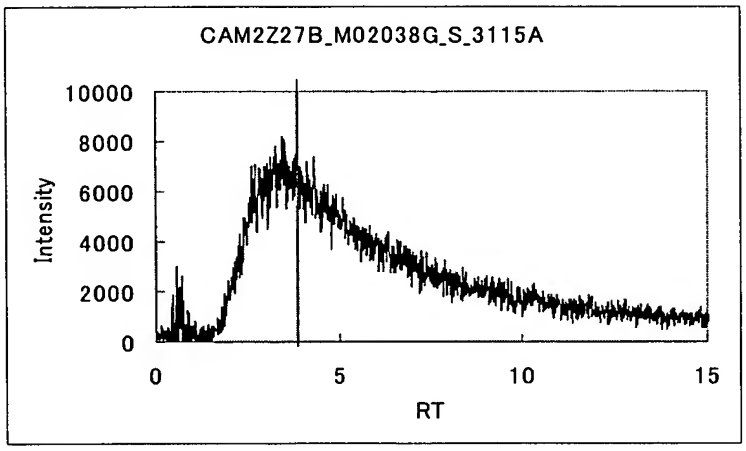
Fig. 5-4

Multi02-038G

FIRST SOLUTION (a)



FIRST SOLUTION (b)



FIRST SOLUTION (c)

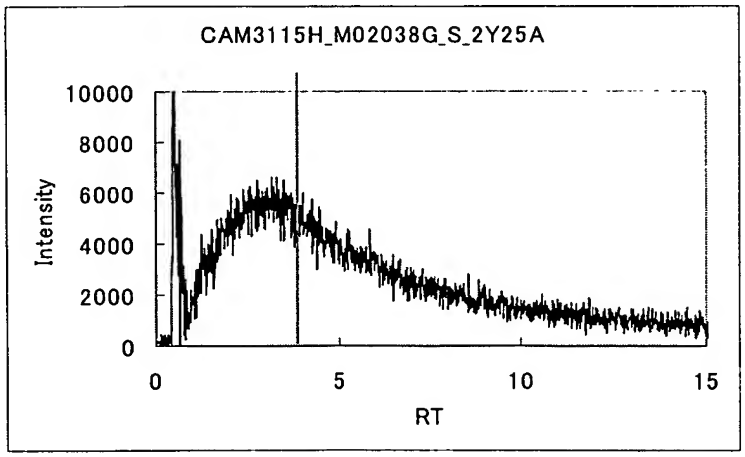


Fig. 6-1

SECOND SOLUTION (C) → FIRST SOLUTION (A)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

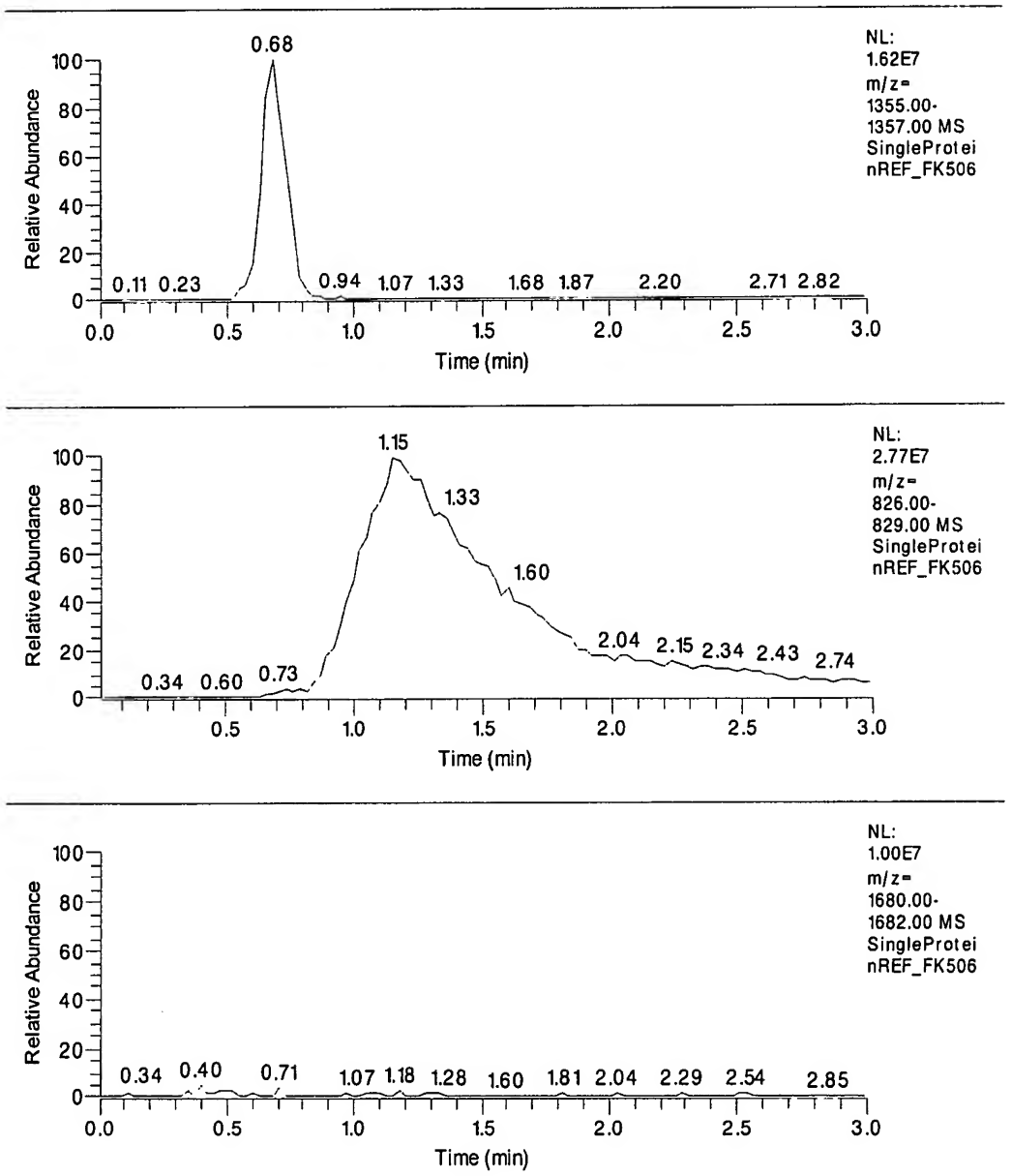


Fig. 6-2

SECOND SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (D)

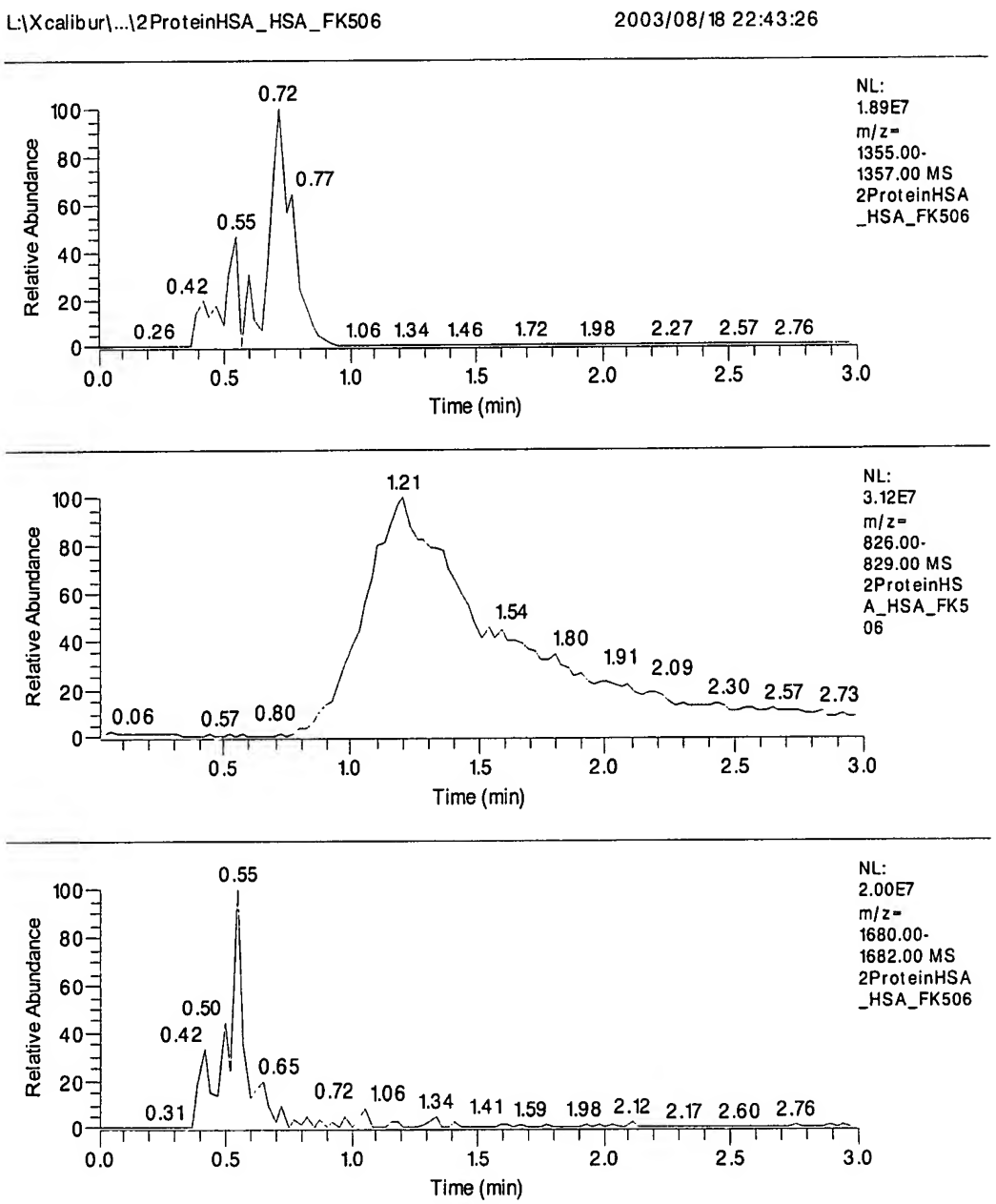


Fig. 6-3

SECOND SOLUTION (C) → FIRST SOLUTION (C)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

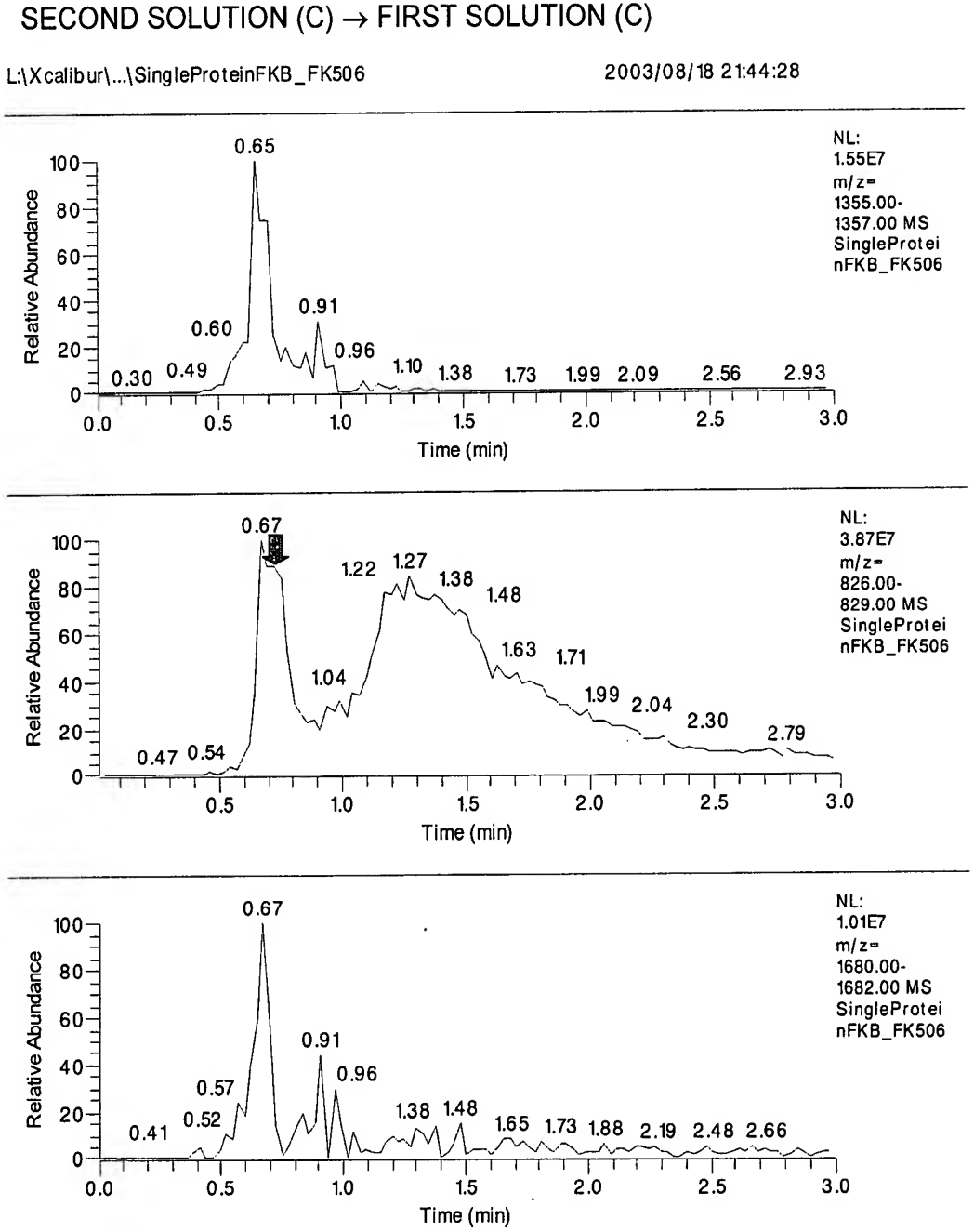
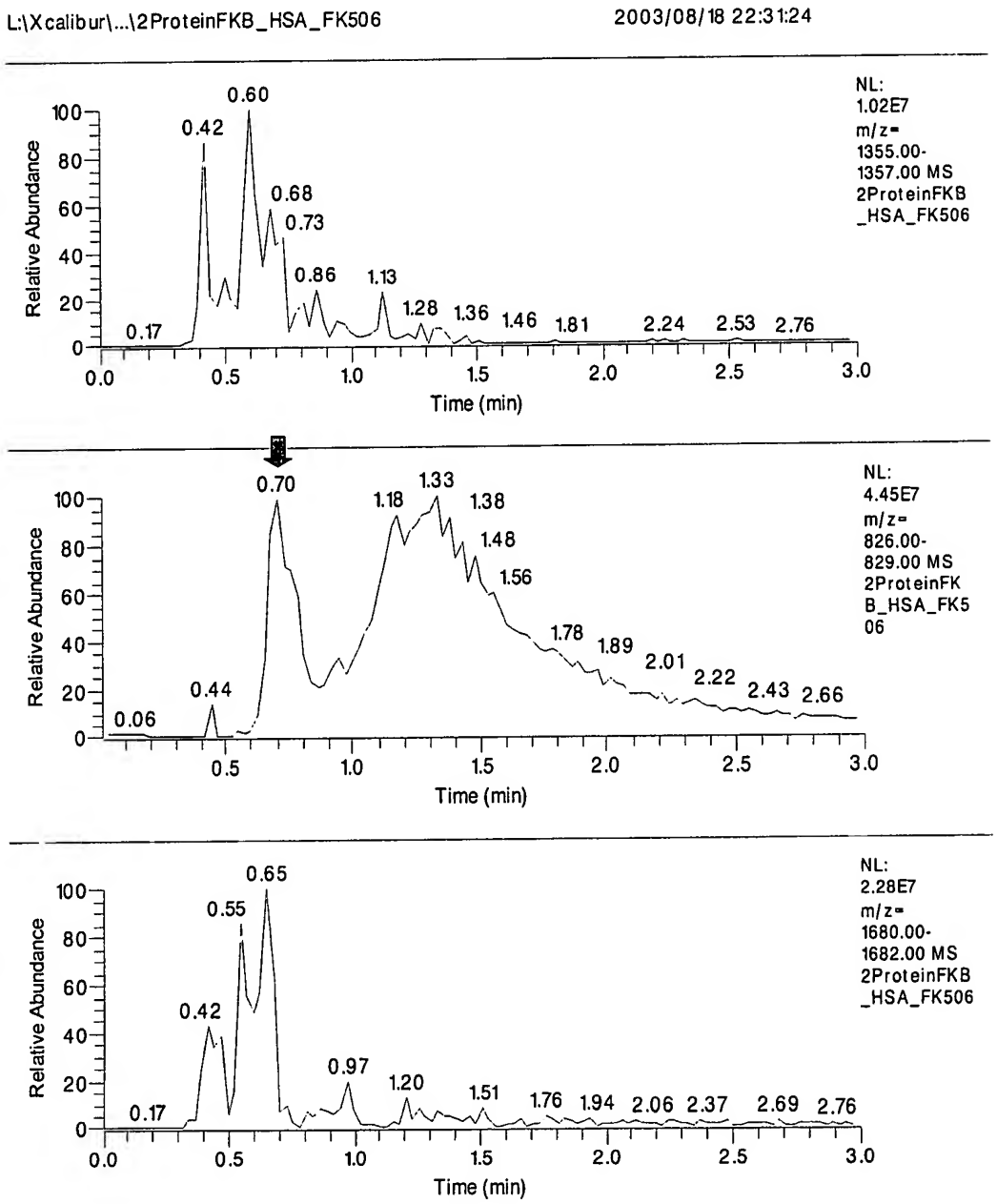


Fig. 6-4

SECOND SOLUTION (C) → FIRST SOLUTION (C) → FIRST SOLUTION (D)



MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

Fig. 6-5

SECOND SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (C)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

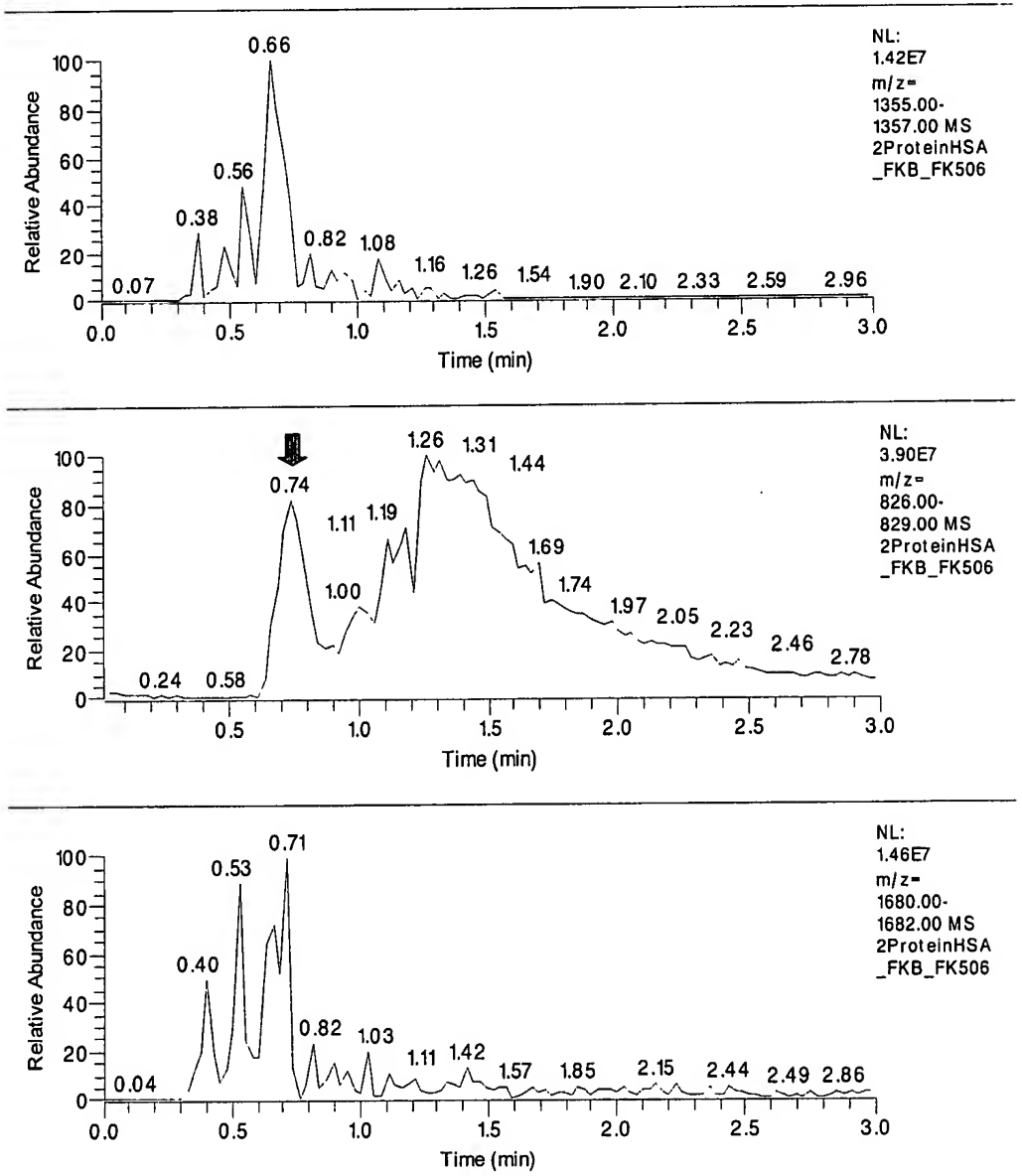


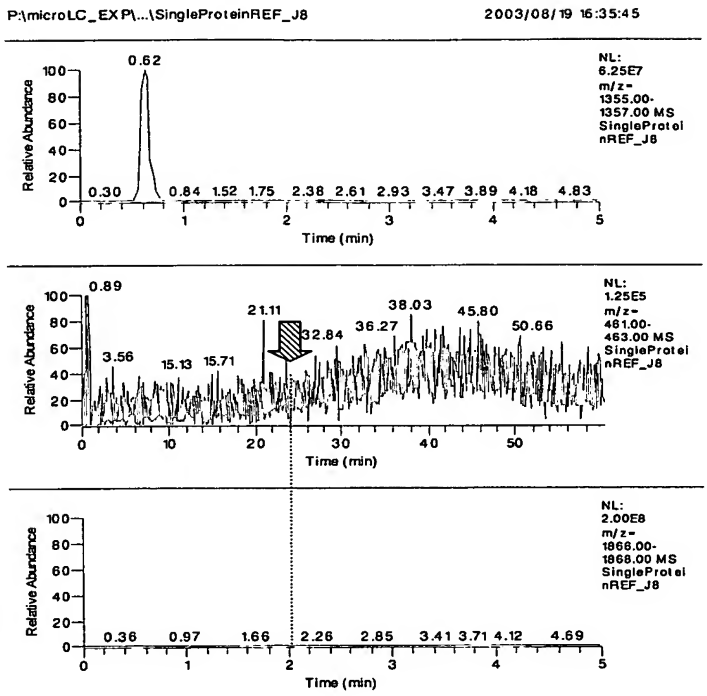
Fig. 7-1

SECOND SOLUTION (B) → FIRST SOLUTION (A)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0



SECOND SOLUTION (B) → FIRST SOLUTION (B)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0

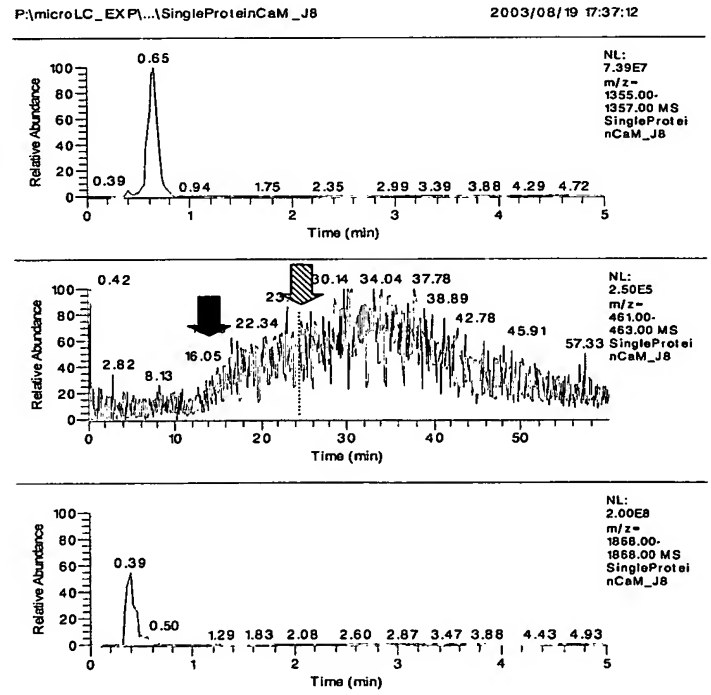


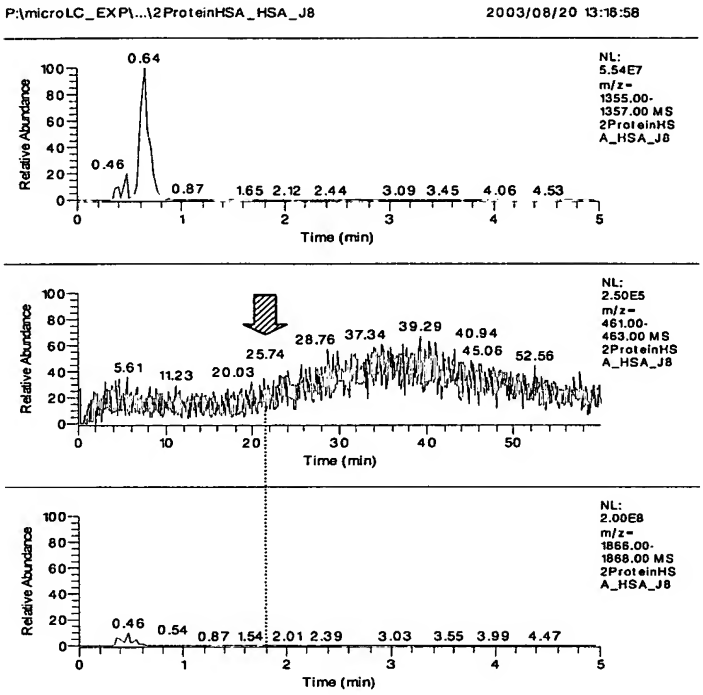
Fig. 7-2

SECOND SOLUTION (B) → FIRST SOLUTION (D) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0



SECOND SOLUTION (B) → FIRST SOLUTION (B) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0

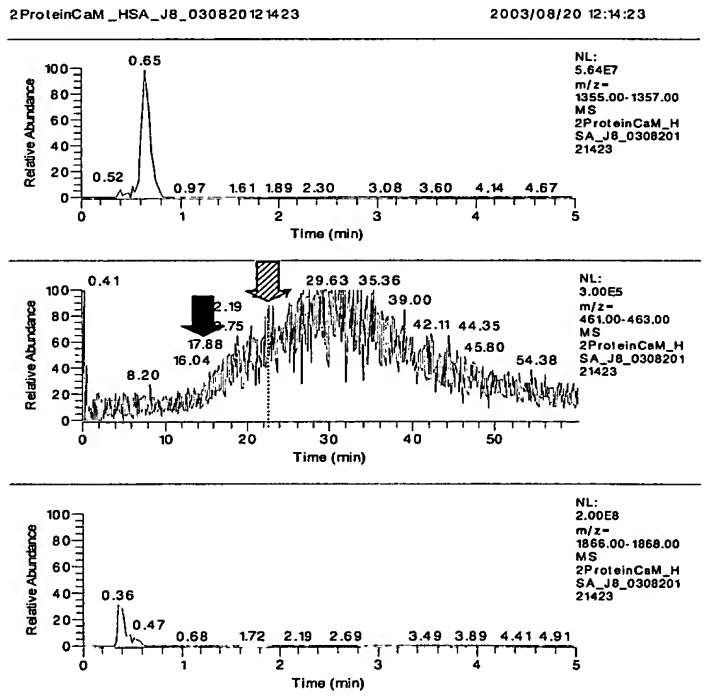


Fig. 7-3

SECOND SOLUTION (B) → FIRST SOLUTION (D) → FIRST SOLUTION (B)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF J-8 m/z=461.0-463.0

MASS CHROMATOGRAM OF CALMODULIN m/z=1866.0-1868.0

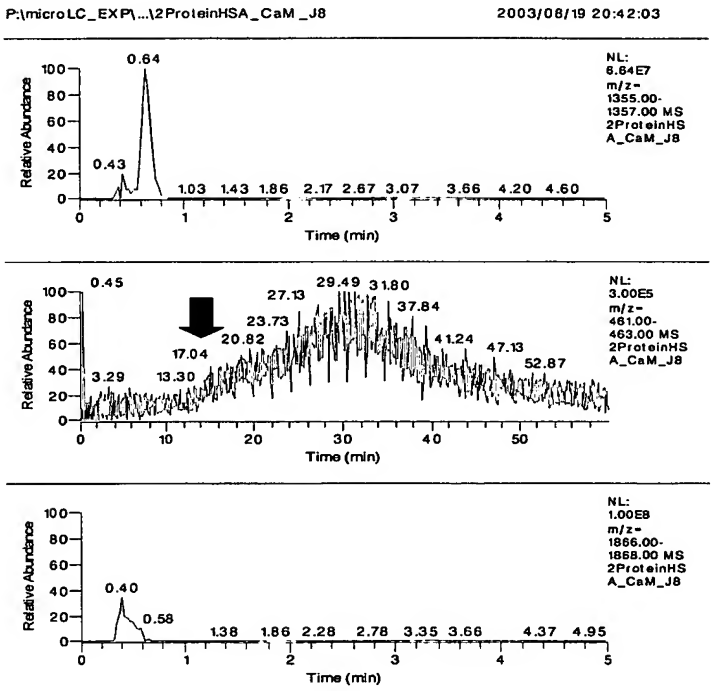


Fig. 8-1 SECOND SOLUTION (C) → FIRST SOLUTION (A) → FIRST SOLUTION (A) → FIRST SOLUTION (A)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

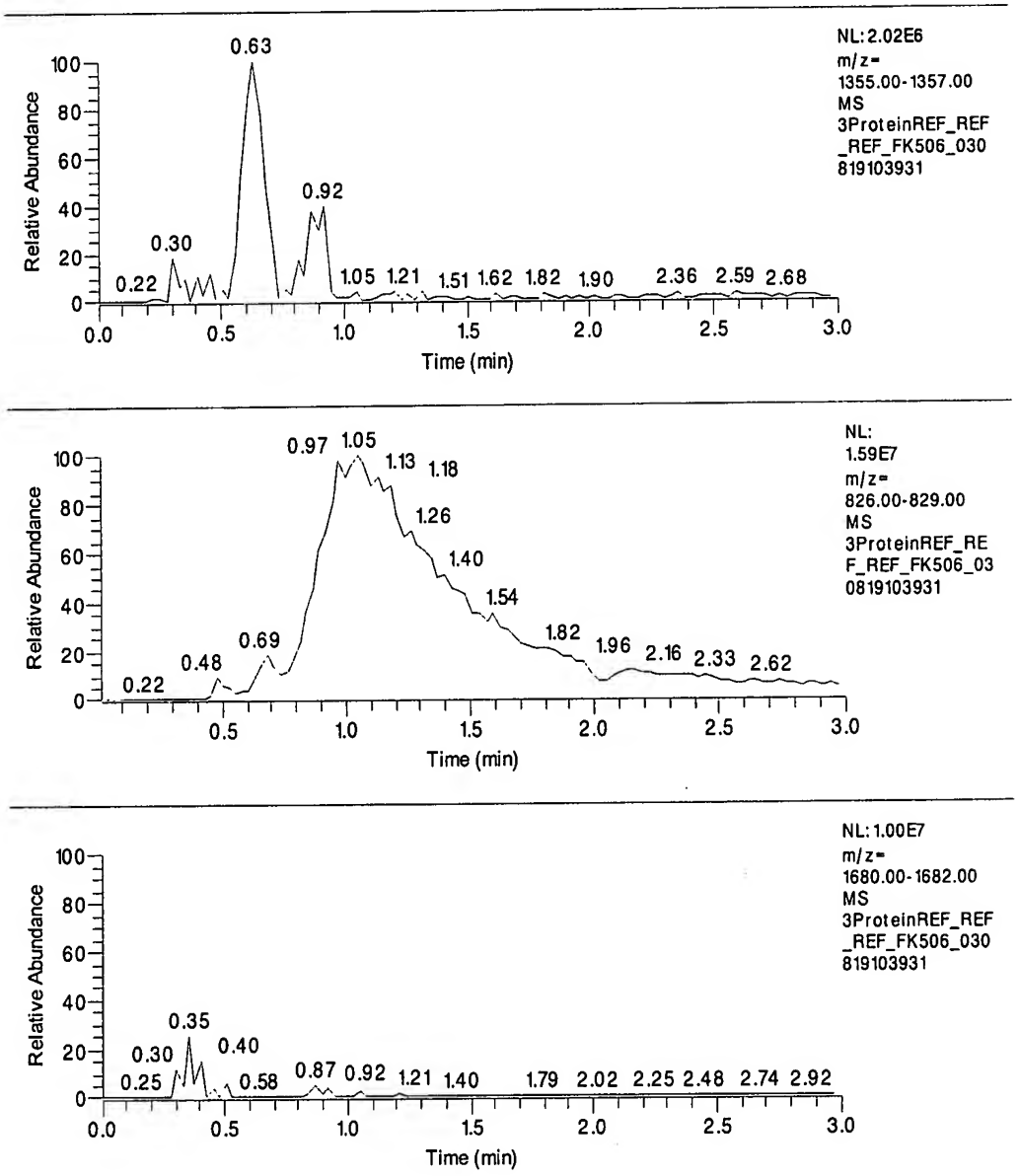


Fig. 8-2 SECOND SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

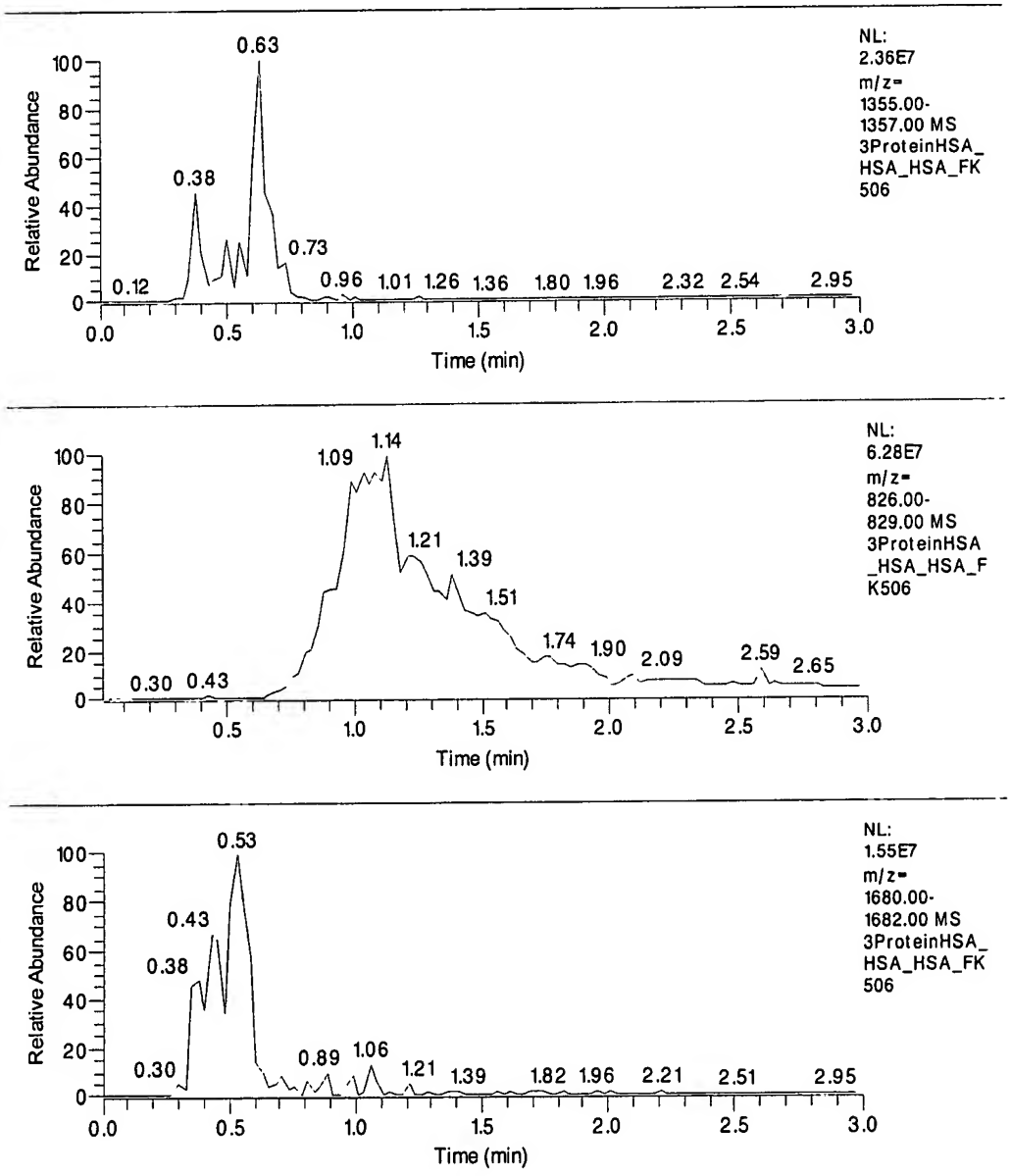


Fig. 8-3 SECOND SOLUTION (C) → FIRST SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

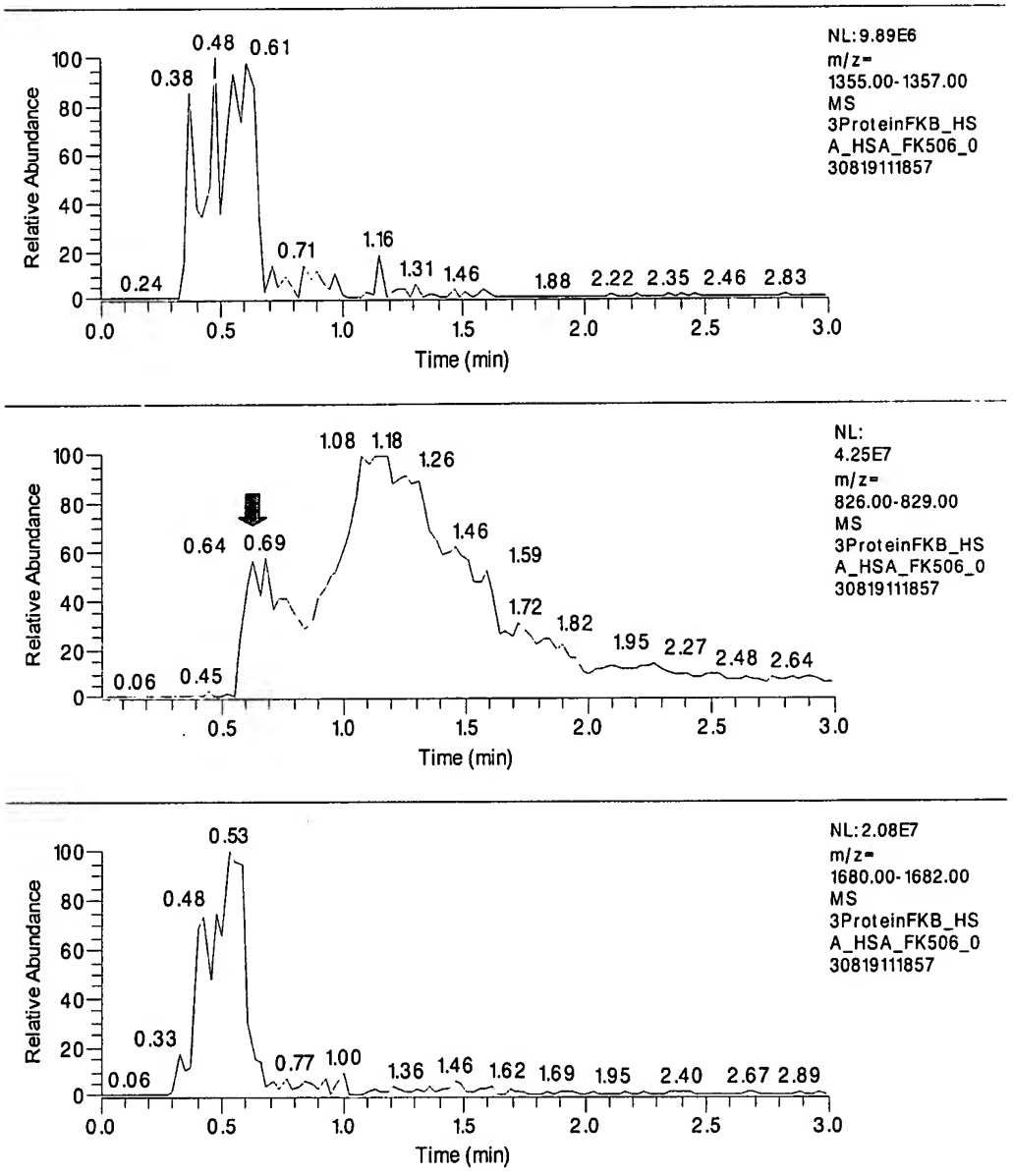
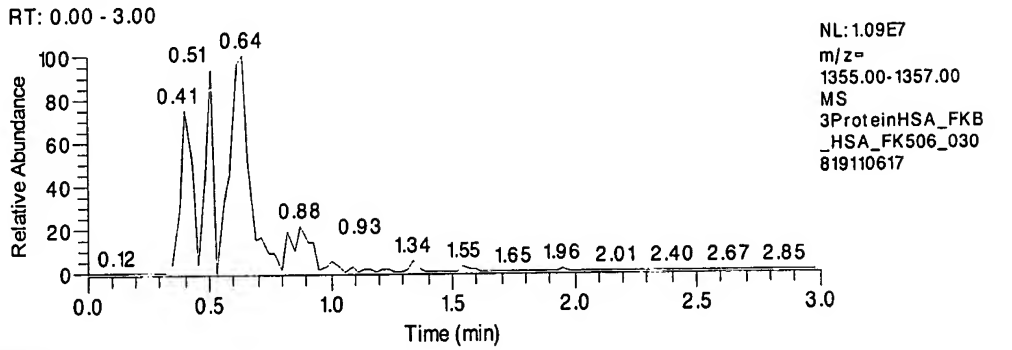


Fig. 8-4

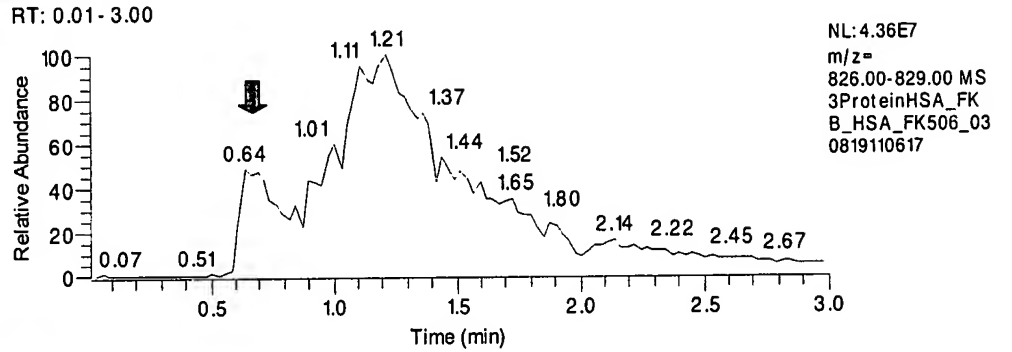
SECOND SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (C) → FIRST SOLUTION (D)

3ProteinHSA_FKB_HSA_FK506_030819110617 2003/08/19 11:06:17

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0



MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

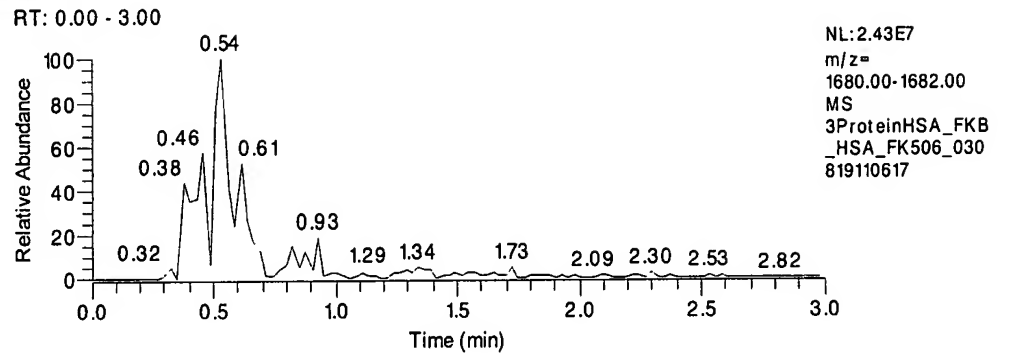


Fig. 8-5 SECOND SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (C)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF FK506 m/z=826.0-829.0

MASS CHROMATOGRAM OF FKBP12 m/z=1680.0-1682.0

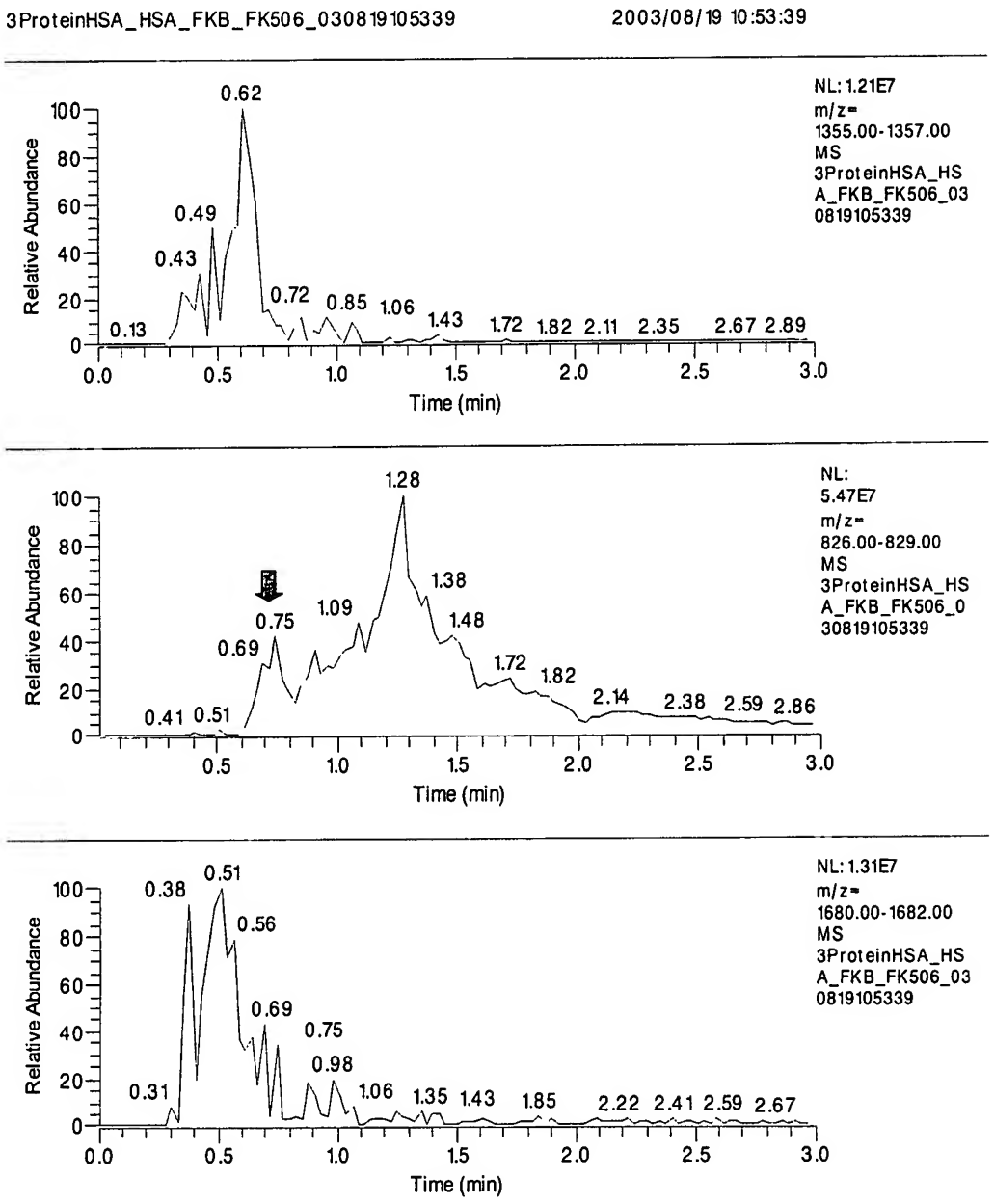


Fig. 9-1 SECOND SOLUTION (D) → FIRST SOLUTION (A) → FIRST SOLUTION (A) → FIRST SOLUTION (A)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF ASCOMYCIN m/z=814.0-815.0

MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1685.0

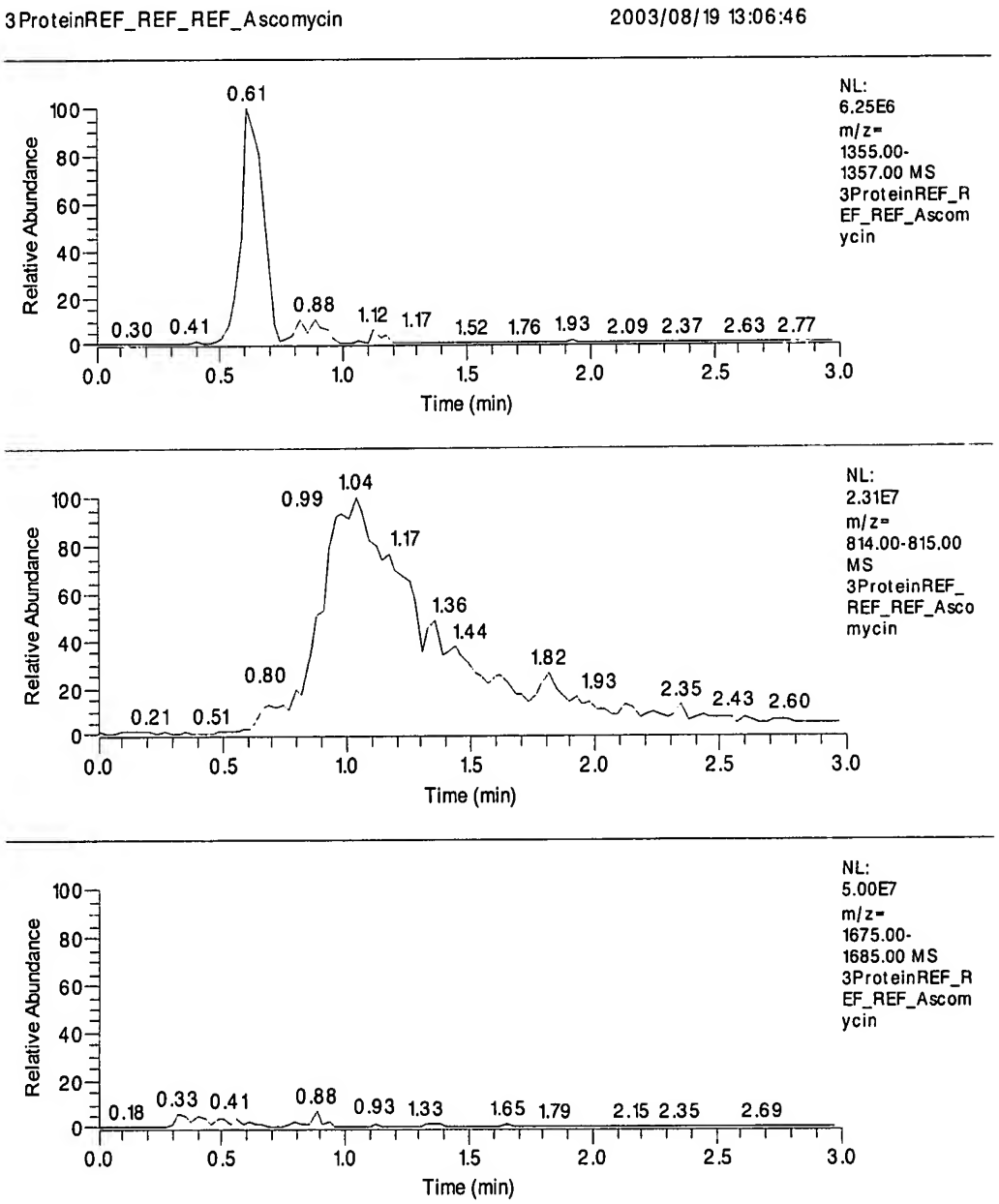


Fig. 9-2 SECOND SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF ASCOMYCIN m/z=814.0-815.0

MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1685.0

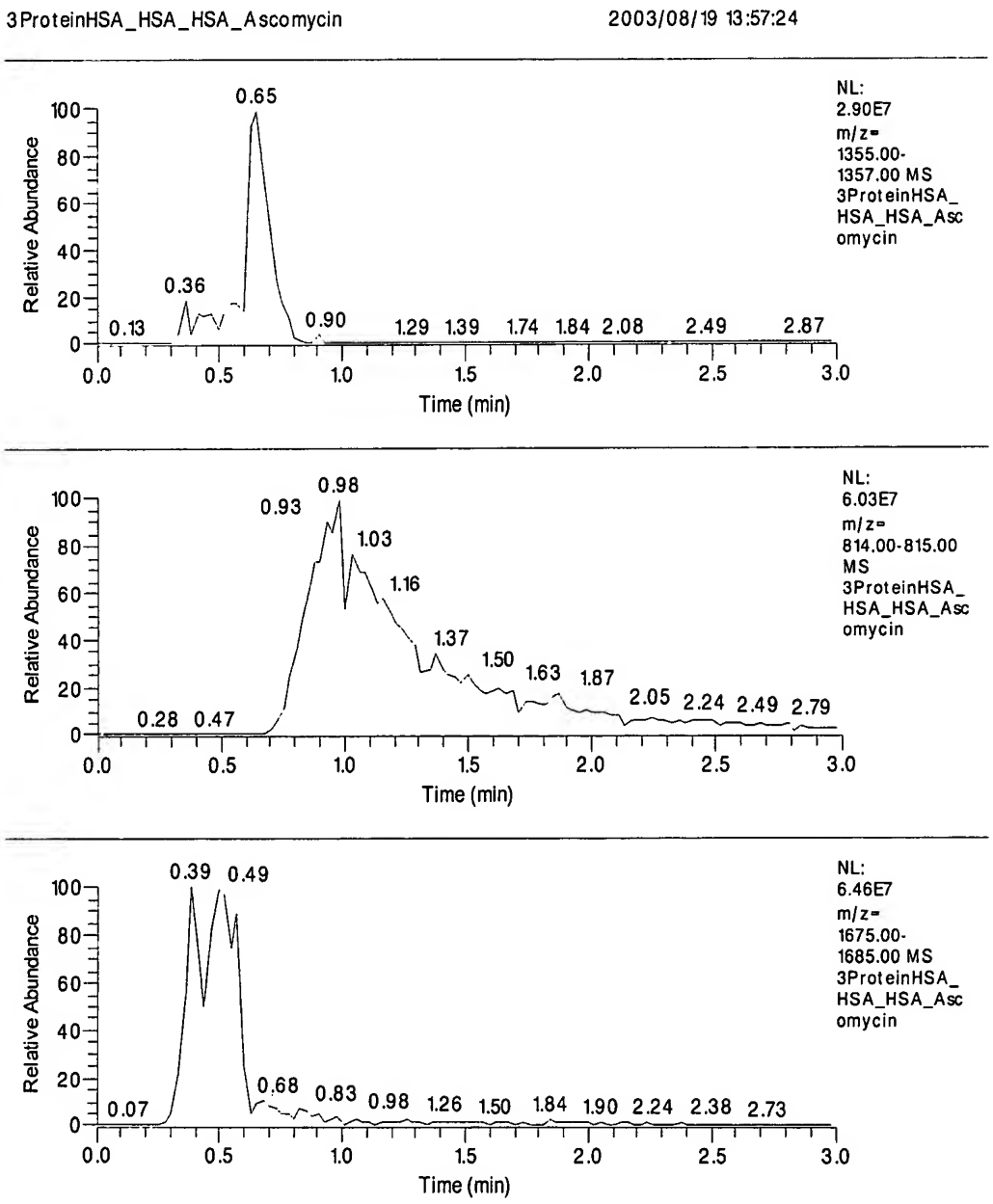
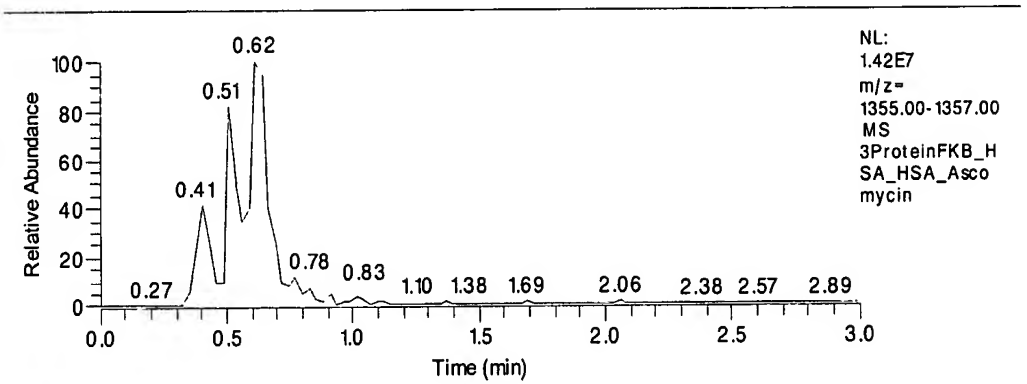
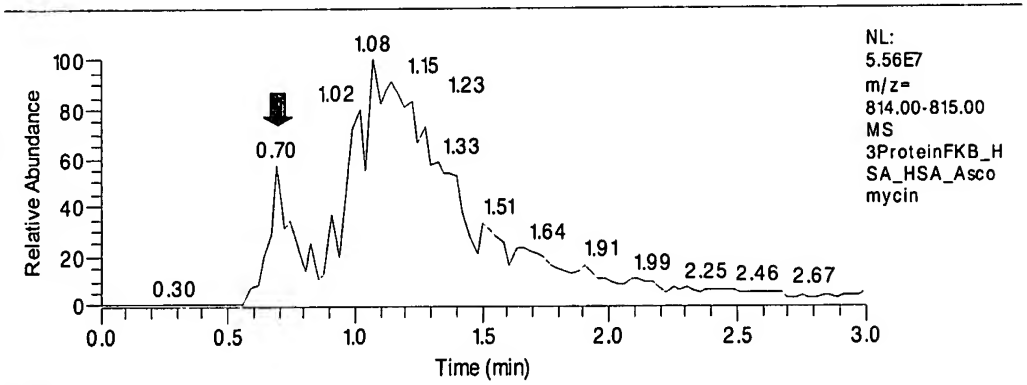


Fig. 9-3 SECOND SOLUTION (D) → FIRST SOLUTION (C) → FIRST SOLUTION (D) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0



MASS CHROMATOGRAM OF ASCOMYCIN m/z=814.0-815.0



MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1685.0

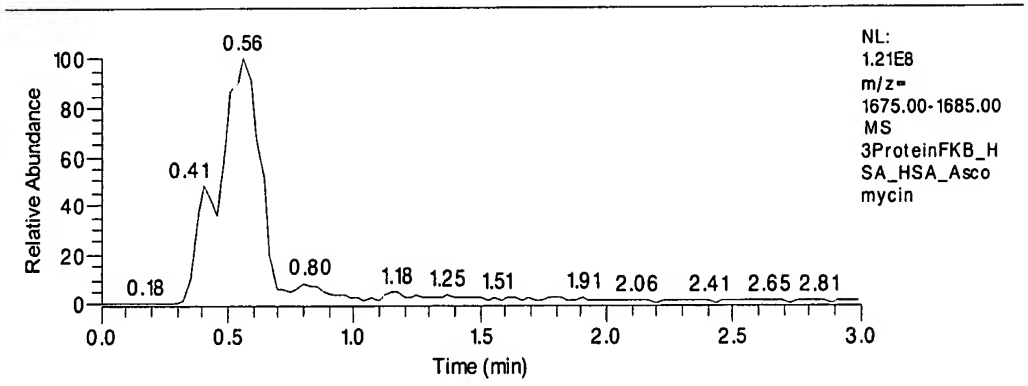


Fig. 9-4 SECOND SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (C) → FIRST SOLUTION (D)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF ASCOMYCIN m/z=814.0-815.0

MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1685.0

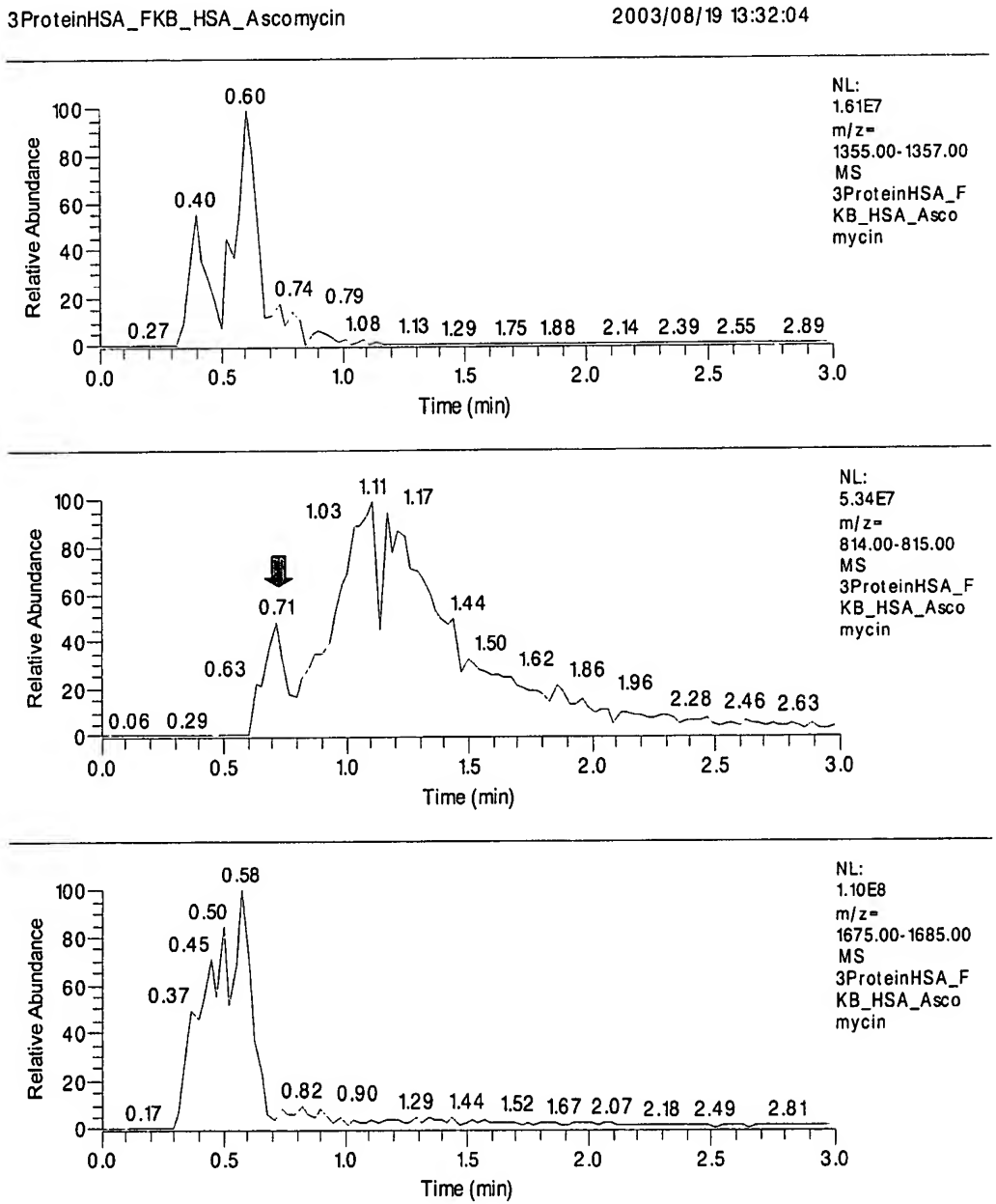


Fig. 9-5 SECOND SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (D) → FIRST SOLUTION (C)

MASS CHROMATOGRAM OF CYANOCOBALAMIN (NEGATIVE CONTROL) m/z=1355.0-1357.0

MASS CHROMATOGRAM OF ASCOMYCIN m/z=814.0-815.0

MASS CHROMATOGRAM OF FKBP12 m/z=1675.0-1685.0

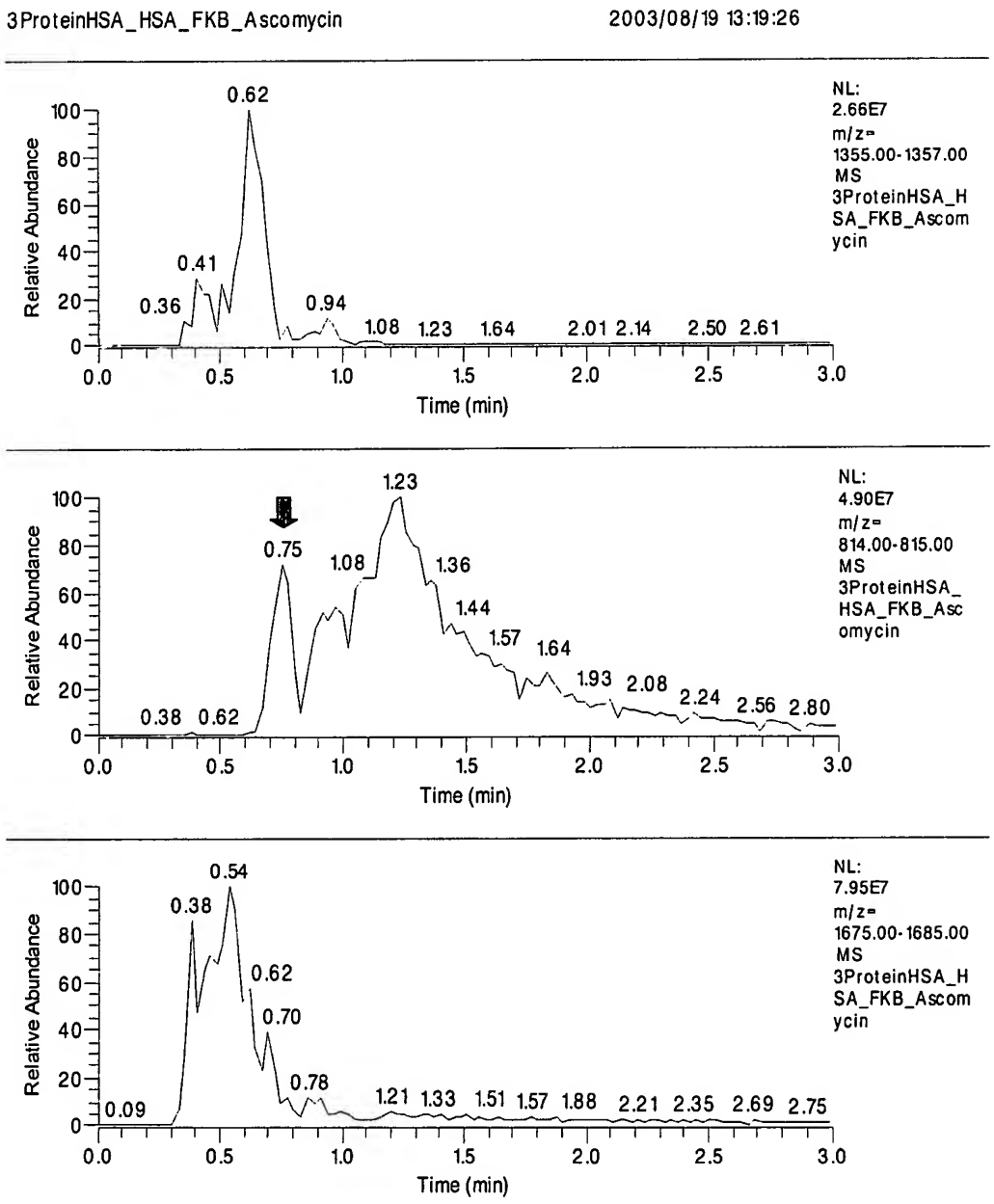
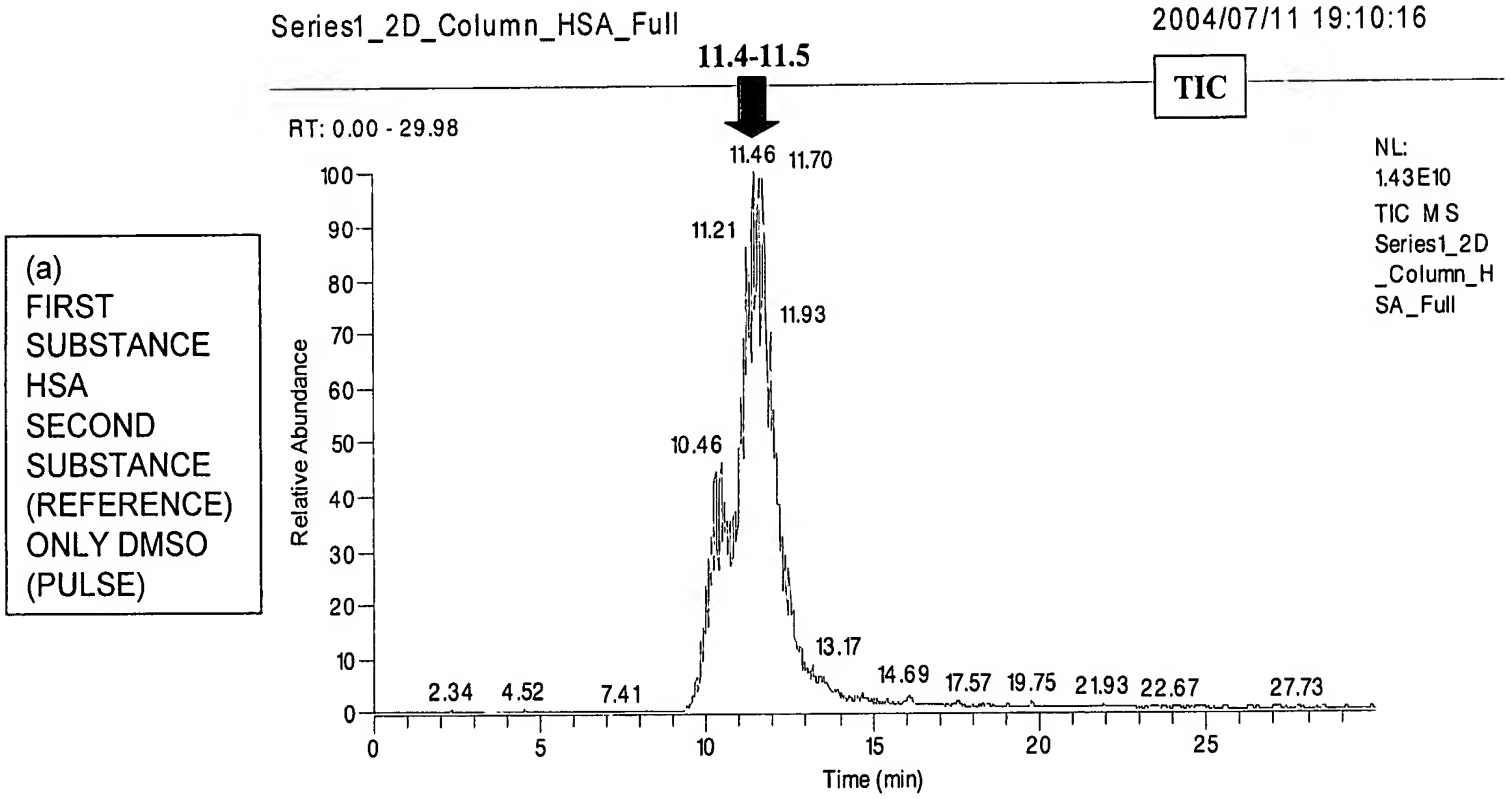


Fig. 10-1


(a)
FIRST SUBSTANCE
HSA
SECOND SUBSTANCE
(REFERENCE)
ONLY DMSO
(PULSE)
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11.4-11.5
TIC
RT: 0.00 - 29.98
NL:
1.43E10
TIC MS
Series1_2D
_Column_H
SA_Full
Relative Abundance
Time (min)
11.46
11.70
11.21
11.93
10.46
13.17
2.34
4.52
7.41
14.69
17.57
19.75
21.93
22.67
27.73

Fig. 10-2

(a)
FIRST SUBSTANCE
HSA
SECOND SUBSTANCE
(REFERENCE)
ONLY DMSO
(PULSE)

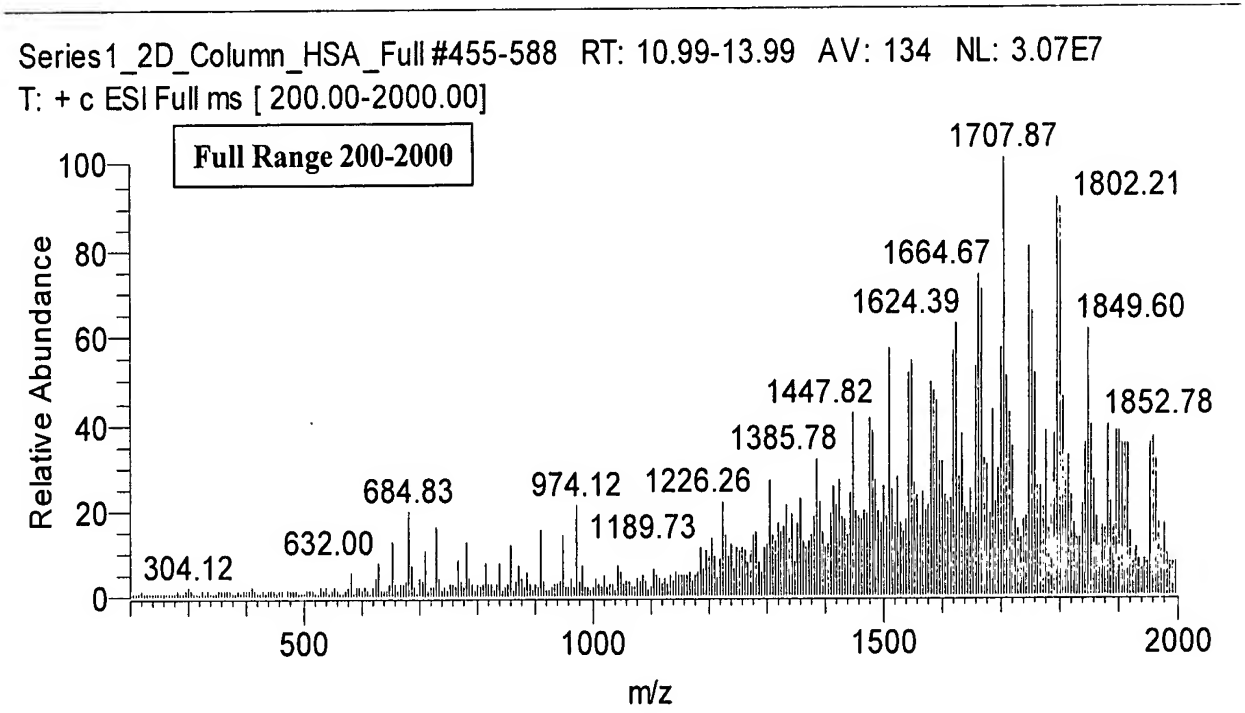
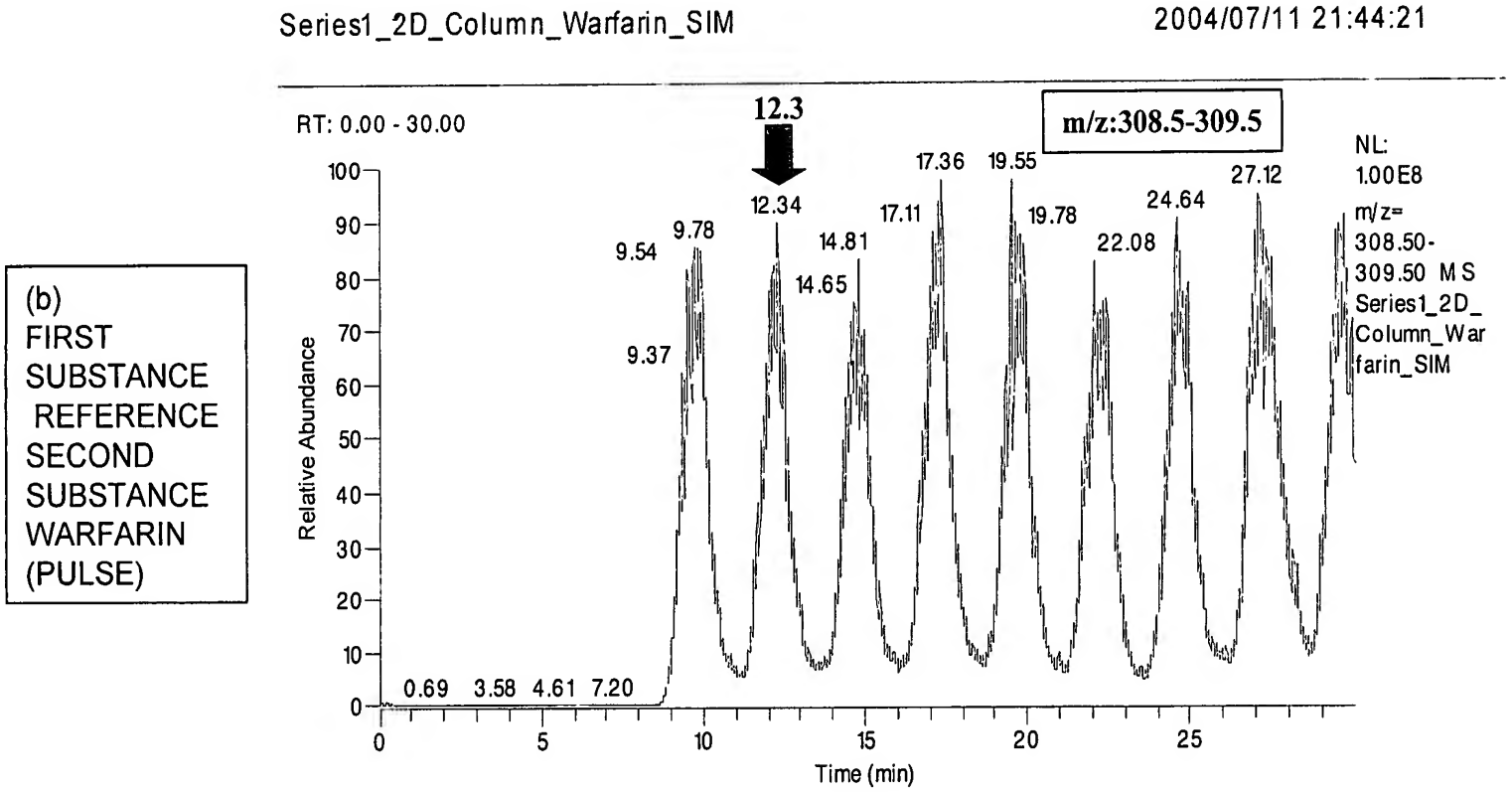
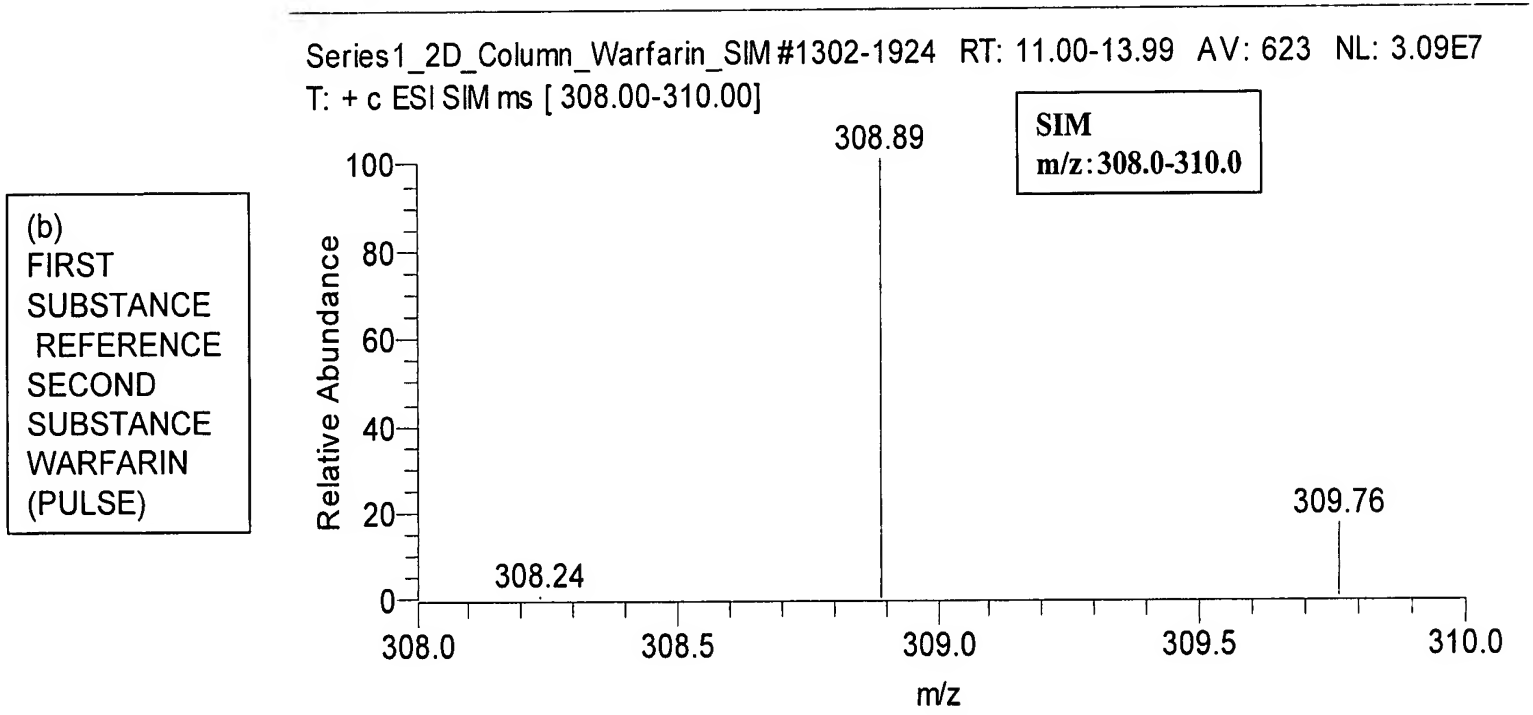


Fig. 10-3



(b)
FIRST SUBSTANCE
REFERENCE
SECOND SUBSTANCE
WARFARIN
(PULSE)

Fig. 10-4


(b)
FIRST SUBSTANCE REFERENCE
SECOND SUBSTANCE WARFARIN (PULSE)
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T: + c ESI SIM ms [308.00-310.00]
SIM
m/z:308.0-310.0
308.89
309.76
308.24
Relative Abundance
100
80
60
40
20
0
308.0
308.5
309.0
309.5
310.0
m/z

Fig. 10-5

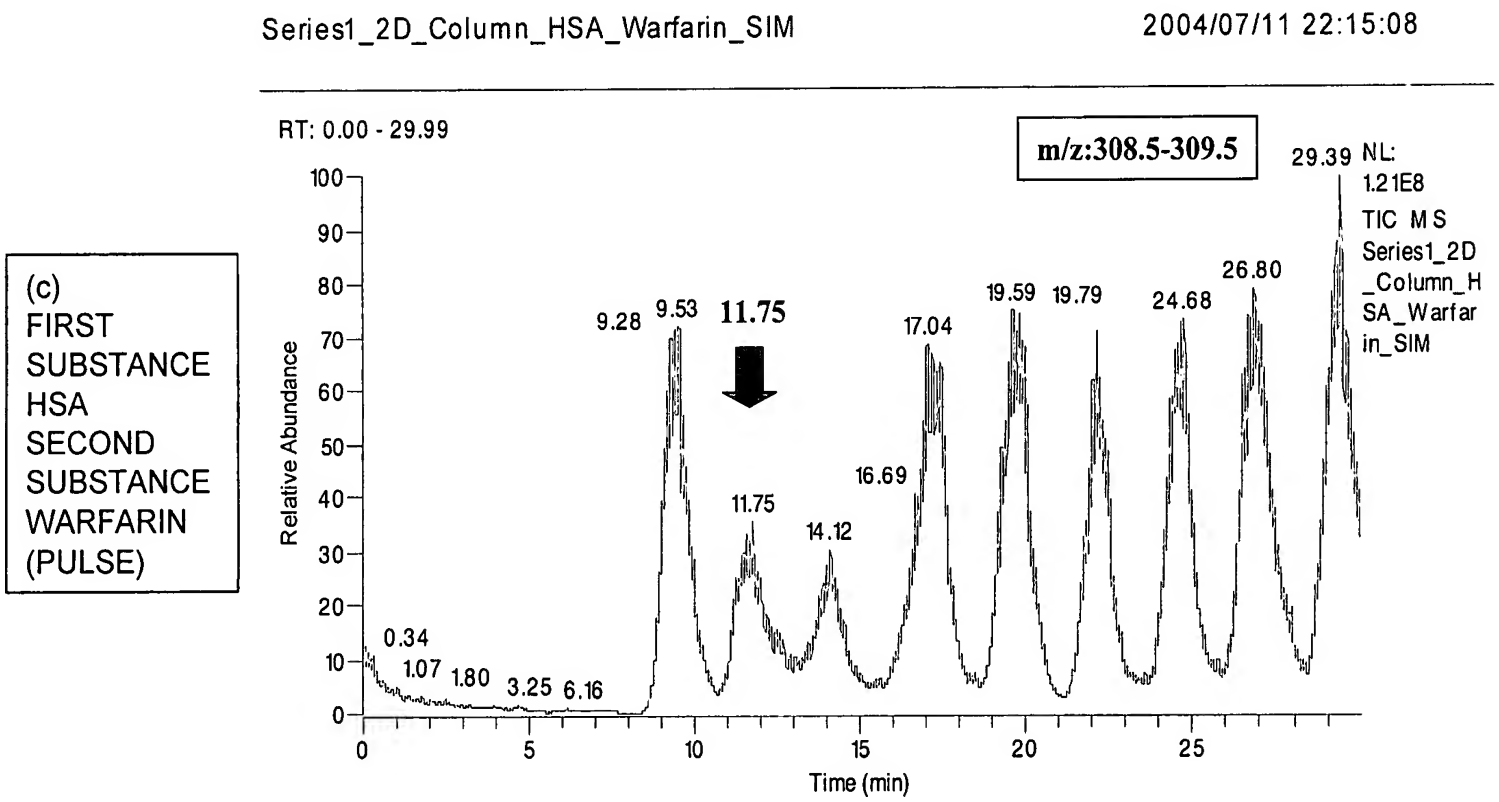
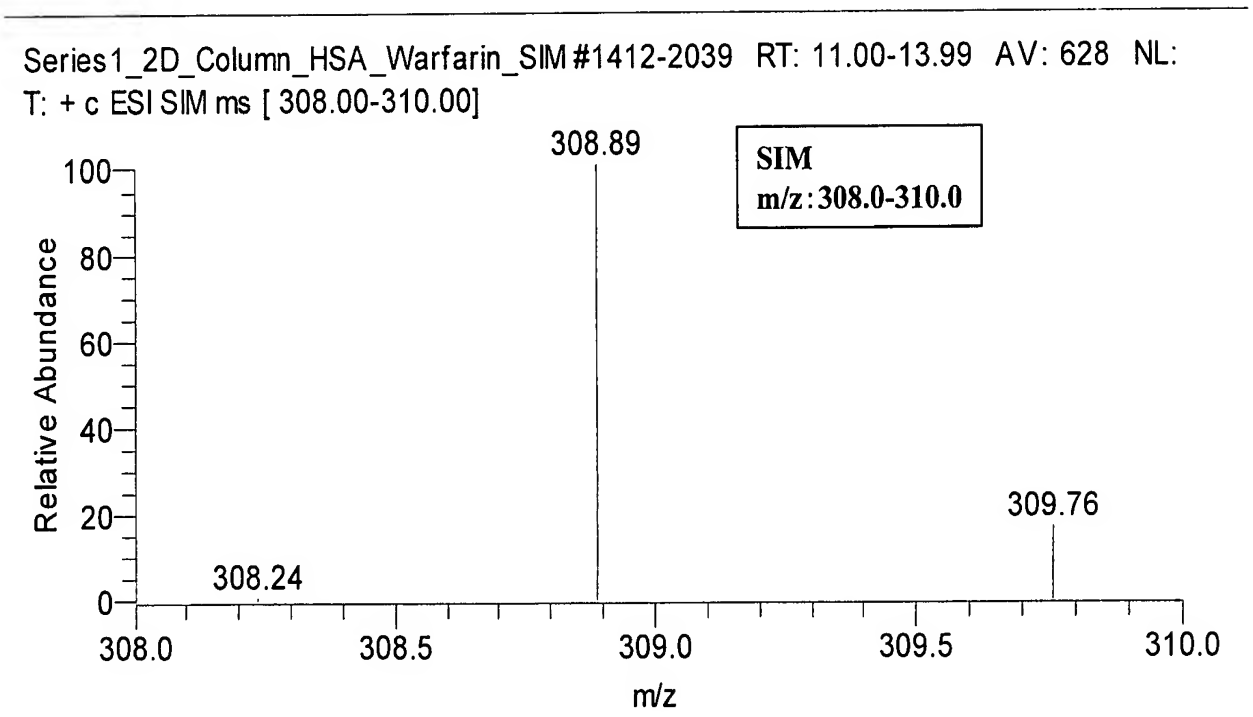

Series1_2D_Column_HSA_Warfarin_SIM
2004/07/11 22:15:08
RT: 0.00 - 29.99
m/z:308.5-309.5
29.39
NL:
1.21E8
TIC MS
Series1_2D
_Column_H
SA_Warfar
in_SIM
Relative Abundance
Time (min)
0.34
1.07
1.80
3.25
6.16
9.28
9.53
11.75
11.75
14.12
16.69
17.04
19.59
19.79
24.68
26.80
(c)
FIRST
SUBSTANCE
HSA
SECOND
SUBSTANCE
WARFARIN
(PULSE)

Fig. 10-6



(c)
FIRST
SUBSTANCE
HSA
SECOND
SUBSTANCE
WARFARIN
(PULSE)